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<210> 9180

<211> 348

<212> DNA

<213> Homo sapiens

<400> 9180

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 aanangcggg gtggggctgg gggtgaaaag cacaaantaa ggcctacagg acgctctgca 180  
 cgggctgagg aagagggacg tggttcagcc atggctgcag gagactgggt ggatgtccgt 240  
 gtcaccaagg cctataggga acaatgggga ggggcgggct tgggtgtgat cangaagact 300  
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<210> 9181

<211> 532

<212> DNA

<213> Homo sapiens

<400> 9181

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 atcanacaaa aatccitaaa actttagacc ttgccatgct acaccacatc tgccaataca 180  
 tgaaactgac ccattagtgc tctgctggat cagcctgccc aggactgct gcctgctggg 240  
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 ganctgctcc ggcttccctgt tgtgtggtaa gggaacttca ntgtgctatg ctcttaaaaa 480  
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<210> 9182

<211> 322

<212> DNA

<213> Homo sapiens

<400> 9182

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 tccaaagttc aggaccactg aaaccataat agaanaatct tgggagctaa tgtcaaagaa 180  
 tcattttttg ctatgcttga ttttaagtcca aactttaatg tgattttaat ctattgcata 240  
 tccnntgagg aatttaactg tgataatact gaaaagaaat attggatgag aaacaagaca 300  
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<210> 9183

<211> 407

<212> DNA

<213> Homo sapiens

<400> 9183

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 atatataaat atgttgcaaa tcttggaac cttttagggtg tgatggctgc tcaggcaaac 180  
 catggagcaa gattggaaat aataatggtc tgcatacatc ctcccatagg cagtgaacaa 240  
 ggttggccac attgactcta ttatgactga gacagtggca aattttactt ggttccccan 300

aatcagtgaa aananatttt taaaacatat ccntaaaaaa aatatactgt ggggtatttg 360  
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<210> 9184

<211> 511

<212> DNA

<213> Homo sapiens

<400> 9184

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agggattagg ctccaacata ttaattttgg ggaggacaca aacattcagt ccatagtaac 180  
tttgatcttt ctctttcttg atttctgtag ttagaattcc tganagctgc cttgactcct 240  
cctggaacaa tgtgggacat aaataaacia atagatggta actaaaaaat ctgactgctg 300  
ggaggacaca aactggctct ctaatcctaa cttcatacta aatttttgcg tgattctccc 360  
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<210> 9185

<211> 466

<212> DNA

<213> Homo sapiens

<400> 9185

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caaaaggaga gagttgcaca gttggcaaag gctcagatga ggaaataaac aaataaaaaat 180  
gcttttcttc aatgtctggg acccactttg ctttctcaag aaaggccgaa aaccagtcaa 240

ctgcgtgaca ctttgtcttc tccttctatg cctttcgtgt cctattgctg aatggaaaaa 300  
 cccgacagta tcttttccca gtgggccctt ggatttatgc tgcaacttaa ctcactaaga 360  
 ttgtgtgttt cagtaccacg gtgattcctt actcttgtct tgatgctgta gacctgtatc 420  
 gaatcccacg ctgggcacta tgtctactgt nccatgaaaa ngntcc 466

<210> 9186

<211> 448

<212> DNA

<213> Homo sapiens

<400> 9186

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 ccatgcccag ctaatttttg tatttttagt aaanatggga tttcaccatg ttggccaggc 180  
 tgctctcaaa ttccttacc caggtgatct gcctgcccag gcctcccgaa atgctggggt 240  
 tacagcgtga gccgctgtgc ccggcccagc cacttcttct tattggagtg tgagcactag 300  
 gagcaggac ctttccatgg tgcttgcgtg gttataacct gcaccagaa cttagtaagc 360  
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 cttaaancgt tccccaacia gggaaatn 448

<210> 9187

<211> 346

<212> DNA

<213> Homo sapiens

<400> 9187

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 tccagaaaag tagtcagcaa gggcagaggc ccaggacag cagtgggaag agcagggcgc 180



cttaggtgtg gtgctccagc gcaccctggg ccagtgtgc caggaagaac tgccagccct 240  
 tggccagtga cagtgggtgcc tcctgcagct cccgccacag gaatgggctg ccaangagcg 300  
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<210> 9188

<211> 309

<212> DNA

<213> Homo sapiens

<400> 9188

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 aattatattg atttttagga ttaacagct gaaaaaaccc tttctgcttc cactggaggc 180  
 aaaactgaac aaaatgtttag ttaaatanaa agagcagcat ttctaanaaa tctgtgggtca 240  
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<210> 9189

<211> 257

<212> DNA

<213> Homo sapiens

<400> 9189

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 ctataggcac gtaccaccac acccggctaa ttgataaata attttataa acttaaaaac 180  
 ccttctcctt gttaccgcaa atcacaaact ttaaangtcc ancaataaac nctgtccaaa 240  
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<210> 9190

<211> 524

<212> DNA

<213> Homo sapiens

<400> 9190

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caaattcata ggccatctac ccaaattgat tttctcctat caactctagc tgcagagcaa 180
catggtgatt caaaataggt gcctggatag gaanaggcat accgtgaatc taaggactgt 240
nttgaatant aaggctaaca agantcaggc atctgcaggt gctgatgaac tanaaacagg 300
aagggaccga gttaacattt caggtggcca aggctctcct tggaagctgt naaccaagac 360
tgaaggctna ttactcttt ctgtcctgca aatctgcttt gatatggaac aatacccatg 420
gatgcttaan tactanctac tatatccgct tttttttttt gtccccatt aaattgccta 480
agaactgaaa ttccccgaan aaaaanaaan ccccttttg gttc 524
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<210> 9191

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9191

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acacattaca caaaattaaa gacttgtgca tatatttgat ttcaacatta atgtcaaaaa 120
tacatagtat gattttacat aggatttgtg ctacattaga aactagana caaacatcac 180
ttgagtatta aggaaaacat taaatattaa ataactgana aaatgtgtna acactaatct 240
aactgggggt tttgctattg caacatgtcc aatgaagtgg tttcaacagt acaaaaagga 300
ttaggacatg agtttttcca gtctacatgg aatatatgga tttcatttca ggaatccttt 360
cataaaaact ggtccaggat aacagganaa aatccncnct cctgattgtt taatttggtg 420
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cctccattct atgctaattt ttacttgcca acttgggttc tgagtaatac ttnaatcacc 480  
 nccccatca cctctnggtg aaaactgaag gttgttnggg atccctgtta aattgaattc 540  
 tatgcncccc ctttcacccc c 561

<210> 9192

<211> 408

<212> DNA

<213> Homo sapiens

<400> 9192

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 tccaaaaggg aaaacttata gtcaagaaaa acctcacttg ttttttgac aaccaatttt 120  
 cctgtttacc tatagctagg tgtatctgtg cacatcactt aattacttag gantanataa 180  
 tgggttcatt tagtttcatt cttccatccc taacacttta tactcaagga actgatctct 240  
 gccttttgcc gtttaaggag ggttttcccta atatggtttc tgatgcaact actacgttgg 300  
 atttatttga tcccttcgga attcaacccc ctttttaana ntcaatgcag taaaanancc 360  
 tgagtctctc tctataaaat cttcaaagca ctgaanaatg acatgagc 408

<210> 9193

<211> 559

<212> DNA

<213> Homo sapiens

<400> 9193

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 tgtttatatt taaacaaaca cttcaaaaat ttaataaaca tgtntaaagc actatactgt 180  
 gccaggcatt gttagcaact gggaatatgg gaatgcatga aactagtcc tgcccttgan 240  
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gattctggaa agcattgcgt acctgagccc ccancatggc gggcctaaag cggcgggcaa 360  
 nccaagtgtg gccanaaaaa catggtgagc aagaacatgg gctgtacanc ctgcaccgca 420  
 tgtttganat cctgggcctc ntctgacaca caaaaatgtt cgcgtgcttc ctcccccttg 480  
 ttgaaattcc tgnataacac aaacttgaac cctcccaaata gaacttnact ccttattggc 540  
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<210> 9194

<211> 559

<212> DNA

<213> Homo sapiens

<400> 9194

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 actacaggcg cctgccacca cggccagcca attttttgca tcttcagtan agacagggct 180  
 tcaccatgtt ggccaggctg gtctcgaact cctgacctca tgattcaccc acctcagcct 240  
 cccanagtgc tgggaccaca ggcgtgagcc accgtgcccg gccaanatga acatttttta 300  
 aaaccaatth ttcagggtata acataagatt tctanccaaa ggaaaattht gttgtattaa 360  
 ttccaacatt tgctgtgatt tgggtattatg tgggtatttct tttgtgctct aacaaaaatc 420  
 atgctagatt tagatgccna taaatgccca atttgaattg aaaacatctt ttacctccca 480  
 ataattatgc cntaaaattg aatgaacccc ncccataacc aaaatcccct tctttnnatt 540  
 ttttaattaat ttnaaatth 559

<210> 9195

<211> 227

<212> DNA

<213> Homo sapiens

<400> 9195

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 cagcttggcc atttcctgca catagatgcc tatactctcg ctgtcaaaaa gcacgaagta 120  
 caccgttttg atggaagang acattgtana cacgaantaa ctggagatgg ccttcagaat 180  
 cagctganct gctgtctgct ttggaaaacc gttcctggag aaaanaa 227

<210> 9196

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9196

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 tgagtttatac aggctatctc agccttatac atgttctctc antgtatgct tttcgccac 180  
 ataatgaact acaaattttt gctcaaccct tttccacata natctgagtt ttcctnctat 240  
 gggttttctg taacataaaa taagacataa ttgatcacgg aaggcacaac cacattcact 300  
 gcattcaciaa ggtttctgtc ctgtgcaa at ccactgttat ctctgagggc tgcacatctg 360  
 accactggct gtcccacaaa gactacgttc ctgtttgcga agangccgct aatgtttaat 420  
 gatgtctgan gggccacaaa aagcacttgt gttatcccc cgtagcaaa atttttctcc 480  
 tgcattgacat cactggtgtg ttatganctg tgccnctctg ccaggaagan ttccccctg 540  
 ggtgcctctg tttcctccct gtntttttc 569

<210> 9197

<211> 263

<212> DNA

<213> Homo sapiens

<400> 9197

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aatacagtat aaaaaagaac agcttaaata aacnggtatt cacatatcac aatagcaaag 120  
 ttatgacana atgaactgaa aacacnaaca gttttgaaaa ttctcttttc agcctacttc 180  
 caaataaaaa tagtcaggct ttttncctgt acatagtttg atgctttgtc tataccatat 240  
 atantanaaa aataaattct tta 263

<210> 9198

<211> 443

<212> DNA

<213> Homo sapiens

<400> 9198

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 ctaaattata ttcaaaaagt gtgtataact gtaccatttt cgttaaaata ttgtgtaaaa 180  
 aaaagtttgg gggaatatat aacaaataat taactgtaga tccctctggg tgtaaanatt 240  
 acaggaggct ttcactttga gcactctcaa atagtgtgaa atttgagatt tttaacaata 300  
 gcattatgtg tgcagaaaaa attaaaatac ataaacgtta agaaacatga aaaaatgac 360  
 agtcctaate atgcaattaa aactggcngg acctattttc ccataattaa tgnccnaaaa 420  
 cggtncagtg aaaagttttc cnc 443

<210> 9199

<211> 367

<212> DNA

<213> Homo sapiens

<400> 9199

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 gtcaggattt tctttanaaa tacactgggc tgggtctaatt tatttaagca ggagcacttt 180

aaagtatccc accctacccc attccacccc cagtggacag aaaggaaatt gactgacttg 240  
 aggggatgca gacatctggg ttattccaac anaccantgg ttaagaagan gggggtggta 300  
 ncattatggc ctggggcagg cccccccacc ctgagcctct gaaagctgac tttatctgta 360  
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<210> 9200

<211> 548

<212> DNA

<213> Homo sapiens

<400> 9200

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 tcaaagtcca agattgaaaa ctigcaatta aacactgagc aagccacatg ttttaagtaat 180  
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 tctttcacct cattttttta atgtcgatct tcactttatg ccgttctcag tattcttcca 420  
 aaaatcttcg aacagtagtc ctacaacgca aaatttgggg aaaaatgata attagaccac 480  
 atgttaaaag gcaattttta tgaaaaaatg ttnggccatc nctaactgct aattacatgt 540  
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<210> 9201

<211> 541

<212> DNA

<213> Homo sapiens

<400> 9201

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 acgggtgtag ccaggacggt ctgatctcc tgacctcgtg atccgcccgc cttggcctcc 240  
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 gggaaaatat ctaaaaattg gatatcgatg atacttctag accttgatta tgttatctct 480  
 gantaatttc ccttcccagg atccanaaaa naaaatnaac ccccggnaac ctggtaattt 540  
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<210> 9202

<211> 439

<212> DNA

<213> Homo sapiens

<400> 9202

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 cactcgtcca gttatttctt agggttctta acatggaaaa ngataaatat atatttaaaa 180  
 tttaaataac tacagcttaa ccncccaaa ggattaaaca acttacattc tcaccaaggt 240  
 agtccttttt ttgccctcac cctcattgac actggatntt gtcaaattta aaaaaaatcc 300  
 ttaacaatct gatanatgaa aaaatagttt aagtatacta aggcagtgtt ttccaaggtg 360  
 tttttgtttt tgttttngaa ttggaatttt gctctgttgc caanctggaa tcantggcnc 420  
 gggccccggt cantggcaa 439

<210> 9203

<211> 441

<212> DNA

<213> Homo sapiens



<400> 9203

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accagaatg acaccagcca cacttgtgac tggcananat aacctctttg accttcagca 180
attttaaaag ttcttcatcc taatttctga gtatcataaa aagtaaaaag tactttcatt 240
ttatttttcc ttigaaaatg tttttagtgg caaacaggac tacttgtttt ctttacttca 300
tttttataag catagtantt atatgtcaat ttacttaaaa ttaganaggg aaaccccana 360
nacctgaagt ggcactgccc atccactgaa aggcccacat aaataggttc tcatgtttca 420
tgttatcccg tctaccannt a 441
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<210> 9204

<211> 379

<212> DNA

<213> Homo sapiens

<400> 9204

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ggggcaggac acacntgtcn cgtatctatg ggggtgttatc agggttatat ctgtgacagg 120
atcaactaac ttactggctc tcatttcacc tgataacata anacctccc cgctgactac 180
acacagttta gggtatcact cttatnact cctgctccct gccctgcacc ctaaattctc 240
tgggactcac cgcagttttc ctgactctga tggaatgtgc tggantctat tacgaaaccn 300
gcttttccaa aagggtgctca acaaggccct aaaaattttc ttctggccaa aggtgggtca 360
aaccaaattn ctncnggct 379
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<210> 9205

<211> 527

<212> DNA

<213> Homo sapiens

<400> 9205

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cagacaaacc cataatcttt gtcagaaatg gaatttcacc tgtcactcgc tgatttaacc  180
ttcactttctt ccctgaccca cacccanaac caggcaccct ccaaactgg cccatctccc  240
ctccagcccc tgcctccctg cccggcaaca ccccgggagc tccagnagt ctctggccgc  300
tccaagcgct ctgagggcac cagcctgtcc cactctggcc atttcaatgc cgctcggaca  360
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cnccaatctg gtctgggaac cgcctcctcc ncctgaacct tccctggttt tcccnccggt  480
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<210> 9206

<211> 219

<212> DNA

<213> Homo sapiens

<400> 9206

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gggctanaag tttgggcttt aatggcagct ggggtaaaag gaaacaaaaa cagtaattct   60
gaaanancac aagggaacaa ggcacccagg aancaccctg ggccattcc caggccagct  120
gaactgaaat gctgattctg tccanggggg ctgctgtatg tgtanactgg gtggcantct  180
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<210> 9207

<211> 539

<212> DNA

<213> Homo sapiens

<400> 9207

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 gcactttaca gaaaaagcat ctttctgacc ttgatcatga agttatgtgc ttcttgtcgt 180  
 attctgggaa agttgtctag gaaatgacct attgagggga gaaatacatt tcctttgact 240  
 cttttccaca ttctcttggg tgactttcag ttactctttg tctcagtcag ggttctctag 300  
 agaaacagaa cctattatat acatatatta atggagagag attgatttat atttatgtcc 360  
 cctcnattat atgtatatat tggagatata atatacatat ttatatatat tccnagagag 420  
 aaagaaaaag agagattttt ttaaggaat tggctcnngt tttcctgga acctggcagt 480  
 tctaaaaaat ttaggggtgg ttgncgggct aaaaacccgc ccgntttctc tgTTTTtgn 539

<210> 9208

<211> 487

<212> DNA

<213> Homo sapiens

<400> 9208.

accgggatac tttttaatac atctagtcta aaacttacag ggaaggcatc ctagcacctt 60  
 cttttattat tgtacagcag tgacagtgc gacagtgatg atggcatctc tctatTTTT 120  
 tggaaacatc tccaggaaat cccaagctgc acagtggaga attacaggaa cagaaaaagt 180  
 ggtgtgaagt ctgtcggctt cttccctggg tcaatgagga gctgaactga atcatactan 240  
 aggcatgagt gtctgcgcta tttttaana nctctgggga agtgtggttg tcccacctta 300  
 ggctcctaataaatacactca tttctatttg tgggatgggt aacaccatct tccatttggt 360  
 ctttcctcca ctaatatatt atccttcact gaagtcttat ttctacagtt taatcttttn 420  
 anccccaaa tttttttttt ttncncaa aaaccattct tggttcaggg ggcaaggctc 480  
 gggnccc 487

<210> 9209

<211> 444

<212> DNA

<213> Homo sapiens

<400> 9209

```

ggtaccagtt ttatttataa ttaaccacat acaaactact tttctacaaa ataatggta 60
acatctattc ctttaattcac agaaatatca caaaacaaaa atccttccca cgatatatta 120
ctatttagtc taagctttta ttcaaagggt gagaatgacg aattcaagaa tttctttcat 180
acataaattg ctttccttag ttctgcagat gggtaatctg tttgagataa gcactgtcat 240
gtttcaacct tagagaacaa aaagctatca acaagatagt ggtaaagaaa atgctagcca 300
aaaaataaca ctattgagaa ataggtgcgt attaagtgc atacttaca catctctgat 360
gtcaaatgac caaaatttag ccttagggca ctaaagcaca tttgcccttt tgaagcacat 420
actantatgg ccncttttta tttc 444

```

<210> 9210

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9210

```

aagtcagant tgcctttatt tttagattct taaatattct agaatgangt aaaacgaacc 60
tgccagtaca aagtgaaaat tctacatggt gcctctttgg ngcttcatgc atgattattt 120
caatgaacct cttcctgggc actcttaana tanatctgag ttttgactc nccagtctan 180
ggctttggcg acactcaatg acataatatt cttggaaaaa gcagtagcat ttctgacttt 240
tcatattcag ctcgagggtg tattgtctcg ggctcctgtg cagtcgancg ccacggctgc 300
tcatcggtatg atccangatg ggtccttggc aattttcggg ttctcgggtc cgaagatggc 360
cangccgtgt gtgctcttcc cagtgccgaa gtatctatcn ctcacgggca anaacttgct 420
tggtgaaaa caaaaaactc tctctttggg ccncttcctc ccctnccaaa aaggcgtnca 480
aaaaattgtt ctttcctttt ttttaaagga accaaangan ctcttcgggt taaaaaaaa 538

```

<210> 9211

<211> 426

<212> DNA

<213> Homo sapiens

<400> 9211

```
ccntttctca catattttga tggtagaaat aatgaaacaa actagtgcctt aaaagacgac   60
caatcttgag gagngtgatg tcngtgtnaa aaactaaatg agagtccaga aaggcccagt  120
cataaaacaa gcctttcttt atttcaatga gatagttttc tccttaggaa ngacaagana  180
tgggtgctag aaacagtttg ctttcaagtt atcaaaacaa ccacgacagt tgagaatgtc  240
tggaagagac catttgtttt ttagattgtc aactgctaca caaacagaat tttctggagt  300
tgtgacaggc atcnattaaa aaacaaacn naaaaaacn aaaaaacca aaaaacaaac  360
acctggcctt ttgaagaatc tatcaagttt taaaaatttc agcatacttg cagtgagccn  420
anatcc                                         426
```

<210> 9212

<211> 322

<212> DNA

<213> Homo sapiens

<400> 9212

```
gggagaatcc aaactcactt taatatgaga taagccaagc aaatgaagag aaataatggt   60
tgtaaccagt ccctggtaat acaagcagtg gcaaaccttg ttgatcaatt ccaacatata  120
aacaggaaaa cataaatgtc nggagctaca aacttttagta ttcagaggcg gacctatgta  180
taatggagcc aataagacca aattgacctt tcaggtgttt ccttgctatc tcccaccccc  240
gtcctcatt tacctcaaga cacaatggtt ttgcaaacg attattaaat tgcctantaa  300
gtcctaaaat tattncnttt tt                                         322
```

<210> 9213

<211> 312

<212> DNA

<213> Homo sapiens

<400> 9213

```

aatgcacat gaatgcaaat tcctgtttta tatatttggg tagaaagata gaacatattg   60
aaaataacag ataagtattt acaaattctc accttatttt tcccctttac attcaatggc  120
taagtgtggg gattcatctg taaatgctcc caaaaatggc acaaaattgt gctataatgg  180
aaccaaacaa ccacagtgtt tgtttggggt ttgattttt ctccnataaa aggtacttat  240
ttanacagta aaatttttta gtgacaataa aaatttataa cataaagaac ttttgtnttn  300
ccncattggg cc                                                         312

```

<210> 9214

<211> 435

<212> DNA

<213> Homo sapiens

<400> 9214

```

gatctattca tttatitttac tttctaagga attgatagaa atataaatgt acatataacct   60
aaaaagtggc tatectacat atgacagccc agaatttact aactccatag gttttctgga  120
tatttcaagc acacattaaa acaattacag agaggacata catttatgat ttatgcaaat  180
taaggcacat caattacaat ctattttttt aagttagtca gtttaaaaat cttcacttac  240
aaaaattcaa aatatgtcca agtcaactt tttagtaaga atgttaattt gttgggggtg  300
ggccatttcc tttttncct taaaggtcna acatgaaaac aatgaaggaa atntnggtct  360
ttgtaaaaca cataaatacc tgtgatgttt tgaatcattt gnccttaaa aatattgctt  420
aacaanttaa anccc                                                         435

```

<210> 9215

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9215

```
gttgtgttta ttgaggtgtt attcatatta tcagattgag aatgttaaac tccaagaaaa 60
gagctggtta cctattcctc aattcagctg aagaagtcac taatataggg aaaataatct 120
ttttttgcca ccagctacaa agttagcata tatggttaaa aaaaaaaaag aaaagaaatt 180
ccnaggaaga aaaaataact aaaaataact ctaggcaaaa agacacaata atttcaacct 240
gtcttatatt ggcagcttat tccatggagt tctgagatgg tacacttttc ataacgacta 300
atatctctct gaananttgg aaaaataaac actgatgact gctgacagan ccaganttaa 360
actgtgttct gtgggtccgc atcaggcngc aatccagtgc aaccttctgc ccgtaatcag 420
atgccatcca cagtccanca tattagggcc tcccgcttaa acaaaggact ggaccagggt 480
cccaaaaaac ntccttggga atatttgttt ttatcccggg ntccttcaat tcctgaaaat 540
cccccttccc tggnnaaagg an 562
```

<210> 9216

<211> 463

<212> DNA

<213> Homo sapiens

<400> 9216

```
catattgggg aganttttat taacttaaatt tgacattcct aattttgtct gtaagtcctt 60
ggnatatatg cctttatttg aagcaaacct acaggtgttt cttaatatga cagaatcatg 120
aagacttgca gttaatcagt gttccnaat gattaaaaca atgttcaaat aattacaaag 180
ttacttcntc naaatactta gaaaaatatt ctgaggagtgt ttgaaagct ctgtttataa 240
atagtgattg atacatttat catgtntttg gtgctgaana taaacacttt ttacataaaa 300
cattgtttta atatactgct ctactaatga ggctagttaa tagatatact gtattttaac 360
actaaggaat aaagctttat ctctntattt atcttattta taggactctt atcnatgaan 420
aactttgttt ccacaataa taaactggca aattgcaant tnc 463
```

<210> 9217

<211> 421

<212> DNA

<213> Homo sapiens

<400> 9217

```

ggangcaggg tctctccgta gccagcctg gactacagt gcaagatcac ggntcactgc   60
agtctcgaat tcttanaatc aggtgatcct cctgcctcag cctcccgagc agctgggact  120
accagggcat accaccacgc ctggctaatt tttgtacttt ttgtaaanac ggggtttcat  180
catgttgctc aggetgggtct cgaactcctt agctcaagca atctgccgcg cttggccttt  240
caaagtgctg ggattacagg tgtnaaccac cgtgcctggc tgactacagt tttttaattg  300
cacgtttgtt ccttgaactg accactgtgg gcattccatg ccttcctcca ctgccgcctt  360
tttccaagc  tgaaaanaca aggaagatgt ngcntccaat taaccanaaa naacaccctg  420
t                                                    421

```

<210> 9218

<211> 316

<212> DNA

<213> Homo sapiens

<400> 9218

```

gtattaaaca catgtttatt tacaacgtgg agananaata aggggcagtt aaggccactt   60
tctcctgtga aacactgcaa aatatgtnc aagtacaac ctaatatagg caaaggttct  120
aaaaatcatc tttcttggct tcacgtaatt atcactcggg gagtgganaa cggctgccga  180
tancaccagg ccatgccagg ccacgccaac aagggcgtgt gcattcactt tttcattgan  240
ctgccctcaa aactgctgcc gancgtancc ctgcacgggc ccaagtgttc gccncacccc  300
acancggtct gaacac                                                    316

```

<210> 9219



<211> 368

<212> DNA

<213> Homo sapiens

<400> 9219

```
ctggttgac atgtttgtt tctttattga aagacaatac agaaatgatg aaacaatacc 60
tcaagggtct tgaacatgga tcaaatgaca gaagtcttta atgcaatggc acagaagctt 120
ctggcatcag cacctgcaag ccctgttcag tcatcattca tgatcgccaa atactccttc 180
tggtgttcaa ccagcttcag gaatacttgg tatttcttat catagtattt tttatcctgt 240
agtctcgga acacaacttt cccgactttg ctcatctttg ccattgcttc ctgtacagaa 300
ncgaaatccc ctgaggcaca ngcacccana acagcancac ccacaanaac ggactccccc 360
tcttgca 368
```

<210> 9220

<211> 541

<212> DNA

<213> Homo sapiens

<400> 9220

```
gtttttatat ttttttttt nactccgtgt gcagtgtttt aatttatcca tgtacatagg 60
caattatcat aatttgaagg acacttttta cttattagac tataagaaaa actgtacaga 120
aagtttatac tataaaatta catccctaag tgattagggc cctcagtaac acanaaataa 180
aaaattgaaa agggtcattg ctcggaatc cacataacta cagantaaan cgcaagctat 240
tgttcgtgat cagaaanana cttcataaaa acatcttcac atattcccta ncattatgcc 300
ctactagtaa aaggaaggcc tatgacaatg ccattgttta ttttgtgna cgcagccctt 360
ctatttcctt caaaantttt ttttcctgc tataagataa anaaaagggn tgtntcccta 420
aaatatatac ctaatgaaaa attatctcca canaaactcc cacgttttcc attttccctg 480
gtctcccctg aaattcncc tggaacttcc cncaccaatt ttccaacct ttenttgnnt 540
g 541
```

<210> 9221

<211> 449

<212> DNA

<213> Homo sapiens

<400> 9221

```

ctttntttt tttttnttg gagacagggt cactctctgt tgcccagggt agagtgcagt   60
ggcgcgatca cagctcactg tatccttgaa ctctgggct caagcaattc ttctgcctca  120
gcttcacaag catgaancac catgcctggc taatttttaa aatttttct agaaacagcg  180
tttactatg ttgcacangc tagccttgaa ctctgggct caagtgatcc ttcagccttg  240
gcctcctaaa gcactgggac tacaggcatg ancactatgc ctgcccccta ctgcccctt  300
tttaaagtac ctgggaaaaa caaagtttaa atattctatt ttgtgcccc taattnacat  360
acaatttaag acactttcan aattttacct tattgaaaaa taattnggtt gaaaacttta  420
cttcgaatc cctttgctgt ttgnngcc                                     449

```

<210> 9222

<211> 375

<212> DNA

<213> Homo sapiens

<400> 9222

```

gaaatacaaa tattcttttg tttacttate aaagtaaaaa ataacaaaaa tcttatcagt   60
taaataaaaa agtgacattc tttatcaagc ctctttaaac actgaaacgc acgcattttt  120
atgctcatgt tctttagcag tatttctccc cttttgcccc tcattccctt aaattgtttc  180
aatgagttca tctgtagaat gaanattgtt acctttctta atgctactta ctttttatta  240
tctcaatate aagaccaatc tagacttttt tgtctcttac atgtgaaatg gatgtnaaaa  300
atggaaaatt cnccancact ttttaagata acataaaaaga agcctaagcc aagcctttcc  360
aggnggggaa ccnc                                                    375

```

<210> 9223

<211> 387

<212> DNA

<213> Homo sapiens

<400> 9223

```

aaattcacta cacaaactct gtgatgaggt aagaaaagcg acganggnct tcttgctttt   60
tttcttaaac cattaaagta aaaccgtagt tttctacaga gtacaacaca agttcacaca  120
aaaaagacat tttcttttgc aaatcaaaac aggaaagaaa ggaaaagctc aaacaaggtg  180
aaggaaaagc atttctacag ctgaatcacg actgagttga tcgaagccca ttgttgctgc  240
acaacanact gtgcgtttgg tcacagcggc aatTTTTTTT tctcttcaca ttgtgaaatc  300
actttacatt gttttctagt anaaaaggca aaaaattgtn caaaaccccn agtgttaaat  360
acgtttgtnc caataaaaca ctcccncc                                     387
    
```

<210> 9224

<211> 344

<212> DNA

<213> Homo sapiens

<400> 9224

```

ctctgcaaaa gacactttta aaacatgata tcttgaaaaa ataaatcgca acaattttca   60
acttcatgca aatcgagggc agaggagtgt gaataatgat aaaagggaga gctgaaaaaa  120
taaacatgat tctatttggg cggaatcagt tcattctcaa aatcttgaac gccatgcccc  180
ggctgccaac ttcacatctc tcgtttccat tcttccctca ctgtcctcct ccgcggctcc  240
tggaaggagg acaaggcttt tgggtctcang atgttgcagg gtacancatg gcggacaanc  300
tcacaccact gaaatcatgg gcaaanaagg ncgggccctc cgga                                     344
    
```

<210> 9225

<211> 555

<212> DNA

<213> Homo sapiens

<400> 9225

```

agaatctctg tacgtcattt tattttattt tatttattta ttttgagaca cagtcttgct   60
ttgtcaccca ggctggagtg cagtgcagtg gcatgatctc ggntcactgc aacctccacc  120
tccagggttc aagtgattct cctgcctcag cctcctgagt agctgggact acagatgccc  180
gccactaagc ctggctaatt tttgtatttt tagtaaanac ggggtttcac catgttgacc  240
aggctgttct agatcttctg acctcatgat ccgctcgcct tggcctccca aagtgctggg  300
attacaggtg tgagccactg caccagcct aaaagtcatt ttaatttgta agatatgttt  360
actgttttag ananacagaa gctaactttt cattttcaag gactgctgga acaatcntcc  420
atganttctt gaagttgaat aacaggaaac tgtcttgttt tccaaccatt tngctactgt  480
tanaaactgc ctggtencaa aacccccctc aataaactgc agtncatttg ggcaaccctn  540
ggttgaaaat ttcac                                                    555

```

<210> 9226

<211> 329

<212> DNA

<213> Homo sapiens

<400> 9226

```

agattagaat aaaaatttat ttttgtaaag aattatattt tgtatttgca aaagctgaaa   60
atgctcataa aaattaccag cccagancct ggatttccac cggatccacc acgtgagaca  120
aaagagtctg tcacttcttc ttgccagggt tgagggcctt ttctagacct tggatgtggt  180
ttcgaggggag ctgatactct tcaagcaata gccagccgag gtggtggacc tggtttcct  240
ggatctgcac ctgaangctg tccttggccc cnngggcagg attgacngtg gtgctancct  300
ggcatccctg ctgaaagatg gcaccctga                                     329

```

<210> 9227

<211> 431

<212> DNA

<213> Homo sapiens

<400> 9227

```

cttattaaaa aatatattta ttaattttta cacctgctgc atagcacaag aatattaaca   60
ctataactcc ctgaaaggta caataaatgt tccacattta aataacagga ataagggtca   120
acattttcac ccagtggggt cagcttttagc atctcatgaa agtgcttttt agacctagat   180
atcttaagag tttttttgaa agggatactt ccaagtcaga aaacaagaag atcaaaacaa   240
taggtttttc cagaataaca ggaattttac atgatgaaat gtctatttct gtcggtacaa   300
atcaacgata aaaacaaaat ctacatccaa cctactccaa aataactcna ctgggactga   360
atgaagtcta cagtgtcnat gttgtcttga ganaagcccc natatcncc ctggctacat   420
acatgttttc c                                     431

```

<210> 9228

<211> 437

<212> DNA

<213> Homo sapiens

<400> 9228

```

cntgtttaac tttttaattc nttttcnttt taaattgggc ntgctaataga acacagtaat   60
atgggtttac agatttccta naccaatcct caatttgggc tcagacttga atatacgtca   120
tccaagagaa ctttttcggt ccttcttaag gtgttttaaaa aataaatggc tataaagtat   180
ggggagaaaa catttaagaa taaggtcaga gcacacattc agatacactt tggactcaga   240
tgttctctta gagaactgta ganataaaat gctaattata gtacatgtna acatctgttc   300
naattgataa agagtgaaca taaaataata ggatgatatt attgttacag tcgtctccag   360
acaggaactg gtcttgctct tgcagtcncc aagctaaatt cnggcgatga tgatctctct   420
ctgctggana aaganaa                                     437

```

<210> 9229

<211> 628

<212> DNA

<213> Homo sapiens

<400> 9229

```
catgtctatt tgattgcttt tttcctgtaa agacagtcac taatgctctt caccaaagt 60
tttcatttct tctgacacat gccaaagatcg cacttcccca tccttttgaa gttacttgca 120
gccatgataa ttgccctggc ccaatgcaat gtgaacaggc aaaagacata ttttacttct 180
gggcctaagc ttcaanaacc agtgcataat ttgttgtctt ctctctctct aatgcanata 240
acagaagtcc catgagcctg ggtcccacaa anagacatgg agtgtagcat ccagcaatgt 300
cgttataaac ttgtagtggg aattaacaat acacatttgt tgttataaac taagatttgg 360
ttataaacca ctaancataa cctagccact gctgactgat taattcacia agtggctata 420
tcactttgtg tttttaagtg gcaataattt aactcanttc tctattagat acctcaattc 480
ccaatatttt tttttctgan aaatgcntgt ttattttatc ccaaaatatt aaattttaaa 540
aattttnttt cccaaaattt ccgttgaaaa ggtgggtttt ggtaaatngg gaattctccc 600
tggggattct gaaaatttgg ggcccccc 628
```

<210> 9230

<211> 403

<212> DNA

<213> Homo sapiens

<400> 9230

```
ccatttgtac attattttat ttttagagta tttcacata ctgtctttt tgttgttgtt 60
gttaacttcc cacagtatca cacggttgct ttcatttgag cccccacat ccctgtgggt 120
gaanattggc agacttagct tcatttgtca tattgtctga ggcttaaaaa gactgaatgg 180
cttgccaan atnacaangc agtaaaaagc ggggacttga acctggtggt cctgctctcg 240
```

gttcatttgt atttctcttc atgctcatcc ctgaacacca cggggaatgg caggagacct 300  
ctcccacaan gacacctaan aaagatttgg ggcctctgtc tntaacaat aaaagctgac 360  
ctcngacaaa aaaatcttca ntctgttggc ctgttgggct tcc 403

<210> 9231

<211> 362

<212> DNA

<213> Homo sapiens

<400> 9231

cactgctaaa atattttatt ttaaaatgta ccacagtga tggatgtatc catactgggt 60  
cttataaatg tacacataca catccatata ttgacaaag tatatatatg aactgggttaa 120  
agacctatcc naaanaggaa atatttctag aaagttcatg tgtttatact tcattanaca 180  
attaaaactt atttgaactg atgaagtttt agttgcttag caatgactaa taataccaat 240  
gcctgtcaat aatgacaact aaattgagaa ctataaattt cactgctgtg ccttgggtcn 300  
aaattttcaa tgatggaatc cttaaataagt nacagttatt ccnntaatgg ggtttntttt 360  
cc 362

<210> 9232

<211> 390

<212> DNA

<213> Homo sapiens

<400> 9232

aaaggtatat attttaaacg tgtgtcgtct acctaaagtaa ganaatagtc tttgaactan 60  
gtactatgtt tgctgttttg gtgatgggtt cactanaagc ctaaacccca gcattactca 120  
atatatccat ctatcaaacc tacgtgtgta cccccctaga tctataataa aagtaaatta 180  
aaacaaatca aataccagtc aactatttgg ttgactttgg ttgtactgat taactggaaa 240  
tgtgcctctg aagccacaca gccagagcaa ctggcttttt gtcatccca atgaaaagcc 300

ttgaaanatg gttctattan ataacgggcc acactgaagc taactgtgca tctagatcac 360  
atcaaagcag tanaagtgan atttagcnca 390

<210> 9233

<211> 447

<212> DNA

<213> Homo sapiens

<400> 9233

acgttgcttc aaaatattta atacgtgtta gacacgtaaa agttacattt ttatacaaaa 60  
atcaatacaa cgaangagaa aatactgtac aaaaaccitta tcagctcccc caacctttat 120  
acaacaaaga ctgggagtca ccatacttac aaaaccataa ggtctttcca cttcggggctt 180  
ctgtctgtaa actctcatta aacacttttt aaaagcactg tgtagtactt ctgacctaga 240  
gcttttaaaa atatatcttt tctctataaa ctccattatt tccaagcttg aactcttctg 300  
tgaagttcgt caagcttttt ctcccctgcg gggaancaaa ggacgttaat acgccccttt 360  
cctagantaa tcacaggata taaacgtttc ctcnttggga aaaaaaaggt ggggagggac 420  
aaaaggaatc canttntttg cncttg 447

<210> 9234

<211> 403

<212> DNA

<213> Homo sapiens

<400> 9234

cagcttttaa ctgtttatta taaagacata ttacacaga acaatcttta caaacattga 60  
acacagggga agggaacaat ttcttaatga acagggcctt aatatctttg tataaattag 120  
tataanaatc ataaacaacc actttaata aggcagcccc cctagcccac ccactaccct 180  
cttctgttcc ctatctccca gctttcttag ccattccccca ctttctcccc ttccccacgg 240  
ggctgggctt ggctgcaggt catggcaggc cgatgaggca ggagacacan aaaggaaggg 300



ggaaanaang cccaatccct gatggggcg tcagtggcaa aaaaaacttt ctgggcaccg 360  
accantcccc actccaanca tgagccttta agcagcanca gca 403

<210> 9235

<211> 546

<212> DNA

<213> Homo sapiens

<400> 9235

ggctatgtaa ggnatTTTTt tttattattt ttcagtttat cttagtaatg ccagaaaaat 60  
aacagccgtt attttcactt taaatgcaaa ccaataactg ctgcacacag agtacaaaga 120  
ttacctatga acatggtttag gtacaaaggc catattanat gtatagacca cactttgttc 180  
ttacatcaaa gaccgaccga cagagcaatt ttttgacaat tatttttagca aataaccgtg 240  
ctactaaaca aaggcaaata cacatatata cacaacacg tctcaactaa aattatacat 300  
gtcactttga caaacaatt ctctggtggt ttcaccanat attgcaccc caaagttccc 360  
tgcccaaate ccgaccccaa atgctgactt gatctgaana aaaaaattag anatgttctt 420  
aattaaaggc acatttggca gctactgaaa gtggcatgca tctggcacag gtgcctcccc 480  
taagccnacc acatgttccct tccancanct gttatgcanc tgtttccttg aatggtatcc 540  
atgtna 546

<210> 9236

<211> 521

<212> DNA

<213> Homo sapiens

<400> 9236

cttgaggtgt gaccatanat tgtctattca tgctctttca gacttttgat ataggcattt 60  
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tcttgttttg ttttgttttg ttttgttttt tactattatc attcagtcaa tttttttcat 180

ttccttcttg attttattct tgacceaca atcattcaga agcaagttat ttaatttccg 240  
 tgtatttgcg tggttttgag gggtattctc agtggtgatt tcctatgta ttccagtgg 300  
 ctgagagagt acttgatata atttcgattt ttaaaaattt gttgagactt cttttgtggc 360  
 ctatcatgta tctgtcttgg cgaaatgttc catgtgctga tnaataaaag gtatattctg 420  
 cattgttagg taaaagntcc tgtaaatac cggttaantcc atttattgtn ggggtatatt 480  
 tnaattccat gggttccctt gctgnacttt ccgggtggga a 521

<210> 9237

<211> 451

<212> DNA

<213> Homo sapiens

<400> 9237

cccacccaca taaactgtat ttgtcactat tatacacaat atggtgccat catgcatatt 60  
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 accccacagg gtgggcaaag gtgcttgta atataataaa actgaacaac agtggtanaa 180  
 aaaggtacac ttgtacttat ctccaagttt aaaatgtaaa ttttttctgt tcaatggcca 240  
 ctacctata ttatttttag gatctgggat cggacttagc aacacattat gactttcaan 300  
 aagttgagct cactgttttg tggcgttctt tgcanaaaca ccatgaactt ccgggggtgcc 360  
 ccatgttgct gacaantgtc aaaaacaact ggtgtccacc tgacttnagg ctggacttnt 420  
 gttataggca ctttgttggc catancnccc c 451

<210> 9238

<211> 392

<212> DNA

<213> Homo sapiens

<400> 9238

agaatgagtt gtanagtttt atttttgtga atatagtgag tgacagatgg caattacatg 60

aggatatttg aacgaaggta cataagccta aacaatttca cctaggtaaa atattgatgt 120  
cataaccaaa ctatatggcc ccgtttcata aaggttacta tattctatan anagtgaana 180  
ggtggccttt ctatcccagc ttaccctatt ctigtatttg ttcaaattct cctgaagctt 240  
gcataactag ctgccatcag gtaaagtcta ttggctagca gaagactgca gttctgttaa 300  
tattanaacc ancaggggga acttgggaac ttgacattaa aaatctanaa aacanaattt 360  
taggatgggt ctcggtanaa acctgaattg tt 392

<210> 9239

<211> 211

<212> DNA

<213> Homo sapiens

<400> 9239

anagtgcatc aaataaatat aaattttatt aaanacactc ncatagcatt atcnggaatg 60  
atataataat aaacagcttt caaataacct gcattcataa cattacaata cttacagtat 120  
ttataacat ccncanact tataaaccaa acatctcatg aaaatgaaat gaagctagtt 180  
tttaaaaaag catanaaaaa tgcncacana a 211

<210> 9240

<211> 367

<212> DNA

<213> Homo sapiens

<400> 9240

gagatagagt cncnctctgt tgcccaggct ggagtgcant ggcgcaatct tggctcactt 60  
ctacctctgc ctctgagcc ccaatacaag caattctcct tcctcagcct cccaantaac 120  
tggtgatacag gcatgcacca ccatgcccac ataatttttg ttttntagt aganacagag 180  
tttctccatg tnggccaggc tggctctgaa ctccggacct tgtgatccaa ccgcctcggc 240  
ctcccaaagt gctgggggta cagggtgtgag ccaccacgcc cagccaggat gcaatcttat 300

tgggtgtgtca cttttacccc angaagcnaa aaagtggat gagtnagctg gtacgatnaa 360  
ctgtnat 367

<210> 9241

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9241

gtagagatca ggtctatgtt gcccaggctg gtctcgaact cctgggctca ggcgatcctc 60  
tcacctcagc ctcccaaagc gctgggattc caggcgtgag acaccatgcc tggcctgtgt 120  
ttttaaaccc atgtcacagg acggtattca gcctgaacag tttcctgaa cagaagacag 180  
ggaggaaagc cagccacaca gcaatacacg cagcaggatg cagcttcggt cacattcaaa 240  
aagtgcctc atgctcatgg ctgcgcacat gcagattcag aaaaaacaaa cccacgtgcc 300  
aagctcctgg ccatggctgc tcagggtatt cngggcgagg gacttgggga aggggacaaa 360  
ggccccang gaaacaattt aaccaagggc ttaaaatgct ggccatcttc aacactgaca 420  
ctgtcancaa tggctgcttc tgggtnaggg gaactggata ctgtcatttn tctatttgna 480  
cagtnttaa aa 492

<210> 9242

<211> 509

<212> DNA

<213> Homo sapiens

<400> 9242

aagaatttta agtacatttt attaacaatg tatccctttg ataagattat gcttcaggag 60  
gcttttaatg cccttgacat aaactataca cattatacaa aaacaagaaa atcacaacaa 120  
aaaaaatcaa ggtgagcaaa accatttggg gacaaatctt atttaaatta tacacaactc 180  
aatgaaatat tcttacagaa aaaatataaa tactttttct ttctatgtta cagttataca 240

atataaatca gatttcaatg tctgttcagt gacctacaaa caccagaacc tccaaatatg 300  
tagcagcgta ttactaaata aaaaagaaga aactcatgtg gttagagagc attaagtctg 360  
agattttttt cacaattcct taccactttt caaaactagt ttacaccatt tgtttttacaa 420  
tgcagcttta nggttctgac aggtattttg ttcaattanc tataaaaantt ttttcntcc 480  
ccccccctgg ccccaaaaat tggctttgt 509

<210> 9243

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9243

ctaaacttct cttctcgctt catttcattc ttttgatctt caatcactga tatectttct 60  
tccagttgat tgaattggct actgaagctt gtgcattcat cacgtagttc tcatgccctg 120  
ggttttcagc tccatgaggt catttaagga cttctctaca ctggttattt tagttagcca 180  
ttcatctaata cttttttcaa gggttttttagc ttctttgcga tgggttcaga cttcctcctt 240  
tagctcggan aantttgatt gtctgaagcc tacttctctc aactcgtcaa agtcattctc 300  
tgtccagctt tgttctgttg ctggtaagga nctgcgttcc tttggaaagg aanaagcgct 360  
ctgattttta naattttcag cttttctgct ctgttttttc cccatctttg tnaatttaac 420  
tacctttggg tcttgaagan ggtgatttca aatggggttt tggggttgat ttccccggtt 480  
tgttatttcc ctctaacta 499

<210> 9244

<211> 570

<212> DNA

<213> Homo sapiens

<400> 9244

atcttctcac atctttatta tgtattttat aatcctagct caaaaatcac tcttgtactt 60

ttagatcaca aatttgcctt taagtaacac ataatacact taaggcagat ttgccttaca 120  
 ggtggcctca gcttctaaac accactacac tgctttatat aaaaaacaaa aatcacatag 180  
 aagagaatct agtgacatct ttcttggtat tttaaactta aaaactgcat aataaattga 240  
 gttcccataa aatttcgccc ttgagatagg aaacaaacac tactactatt ttatagttgc 300  
 ctttatctga cttgattgat gcagttataa tagtattaat aacataatct ttaaatttgt 360  
 gagggaaaac caatacttta tattcncctc tcataaaaagg ttcaacagca agcataatga 420  
 agancntta taaaatccta ttgctaagta ttactttaac tcntaattct gcttatataa 480  
 gtgtttgcnt atcccagtta acaaattcta ttttaattatc ccagaacttn tgccaaantt 540  
 tccttgaatg gctttaatac ncggaagnta 570

<210> 9245

<211> 501

<212> DNA

<213> Homo sapiens

<400> 9245

attttaaggg acgtgtttta tttcatagct ttctgcaagc aaaattgctc tgatacaaaa 60  
 tgagttcaat gatacaggtg ctactgtcca ctcaagcaaa anaaaacctc ncatgtntat 120  
 gaacgcactt tataacttata ttcttacagt ataataggctc taatatccag gatgcctctg 180  
 gcctcattga aagcaatggc anaaaaatgc tgcaaggtac ttgaatatca tantactggc 240  
 aagtgcctga agtaacttcc tgtgagttct ctgtcanana ctgcaaaaac tgcgtgtggg 300  
 tgtgtttgtc ttttagtctt ccacctttng gtttacattt aaatcatctc anaaaatata 360  
 ccctgcatgt atcattcagc ttctcagaat ttccataaaa acaggaaaat gtcatagaagt 420  
 ttccctaact ccgggantga ngtagtgctg tggctgtccc aaaagatttt anttacctgt 480  
 tngtncagta ctgaatttat t 501

<210> 9246

<211> 384

<212> DNA

<213> Homo sapiens

<400> 9246

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aaaacctccc gtttaatatc agatgccaca catacnaaat cgatgtgcac gtcggganaa   60
acacagcaca gccaggantn ctggcgcaca gtgaatacgc ttccgtcctt tcaaaagcct  120
ttcccgaacg gnatcttgtn aaaaatgcc aaaaataaaat gaaaaaaact gccaggaaaa  180
nanaactggc tticagtgtt aacgaaatgg attctccana agcatggaaa tcaggactgc  240
cacncagggg aacgcacana caggtccaaa cgcaaacgtg cccctganc ccccatctt  300
caaacacgct catgcacact ggaggcgctt ccaccgccag gccccgctga anacacagcc  360
gggtngnccc ccnccaacg ggcc                                           384

```

<210> 9247

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9247

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ggcttatcaa atttcaaata tattttactg tgctgaacaa tatattctaa tgctgtctaa   60
aacacagcta aattatTTTT ctttatttgt ttatacacat tcggtaattt ctgaaaagca  120
agatttaaaa atatttatta acaaaactac ccaattacaa tgactgttct cccatacacg  180
caactatTTT ctgtagctgt atcttcttac ctcatccac tttaactctg tataccgtat  240
tgatttgtga tgagatgatt tattatgaga actcttaggg agttctcatc ttccatttct  300
catcaattca aacagcaaca cttttcaca gataacatta attcccttgg cagggcagaa  360
gcttaagttt gttaaaagca ctactgaaa aacattttta aatttatagg tcatataaaa  420
taatttacaa agagacagat gacttcnaat attatttggc agtcacctta ctatgtngaa  480
acataaatga aacaatctgt ccacnaaana ccatcccttt tggcctttta aaggaatttn  540
ttttgggaat tnttttctgc aggccttcc                                           569

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<210> 9248

<211> 525

<212> DNA

<213> Homo sapiens

<400> 9248

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caggggaagg tataatTTTT attgacgtgt cctcagcaca aggtctgttt tcaatTTTct 60
gagaaatcaa cttgagtaac gtataaaaat taaaacaaca ctgaactttc gttccagttg 120
ctgtcaccac caagcctgct ggctggcacc tggaggagct gggaacaaaa ggtaccatgg 180
caggtgaaag gcccaagtga ccaacactac atgggctgat catttcagct aaatgccttc 240
tgTTTactga aaaacatctt ggatagccca gttctgcggt caagtgtgct gtatctgcct 300
ccctgggcca cctgctgggt acttgtgcag taggaactgt gTTTtacacg tctctgaatc 360
ttcctcagtg cttatTTTctc agtggttgct gaactaatac ttgctaaaca aatgaattct 420
tctttattca gagtccatac aaatacaggt accttcataa ncccaatgtt actgganaca 480
taaaanttga atcaacanaa aacaagttct ccctatatcc tcnta 525
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<210> 9249

<211> 572

<212> DNA

<213> Homo sapiens

<400> 9249

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aaattatcaa cTTTTattta ttgagcacct atttgtgtgcc agggcccaca ccaggctctt 60
catatgtgta accaataatc acaacaaaga gtcaaataata ttatgtgtat gtagaanaag 120
anaaaactga ggcttacagg gactaaataa tttatccgac atcaatgctg gtaaaatatt 180
caaatgcaat attcaaacc agaccagct gaccctccca cactgccata cTTTcccat 240
gttgccaaaa cactgctttc cagagcacc agattctgaa ggaggcccag gagaaactca 300
caataccctt ggctggaaac agggaaacac tcacgcacac acaaaaggaa aaatgttcca 360
aaatatgtct ctcgtgaaat tccactTTtg gtacagaagc acatattgaa agaanatttc 420
tctcccatc atgttgggct ttgcatctcc cgttgctgct actgctgcct tcttgccaa 480
```



ttaactgncc atgttccatg ttctencatg cccatccntc caggattggt tccngatttc 540  
ctttttgaaa aaattntccc cccggctgca cc 572

<210> 9250

<211> 567

<212> DNA

<213> Homo sapiens

<400> 9250

gtagaataaa atacttttaa tggtttaata ttgtaaacca gccccctcc cacacacact 60  
ttttaataat gggttaaact ttccctttc tgtaaggnc tagctggttt tctgactagt 120  
tgcctaaaca tgtttctcat ataagcgaac ctgaacatgc tgctgctatt aatcatcata 180  
aactgtaaaa tgtggttttc tggaaaactg gtactttggg agttttataa tccittttgga 240  
gtctaagcca gcacatctct gtgagttcat tctaaaaaat gtgctttgtc tttatcttta 300  
gtaatccaag accactctaa aattaaggcc atcagggaaa taacaaactg atgangcatt 360  
ttcttatant gcttttttca cctactgctt gaatgaacag atctttctga accattttca 420  
tcaggccttt catcatctga atcaaatcca aaaaatttct gacattcttt tgtgcaaaaa 480  
aaaccccatt tgcttctcat tacataaggt ggtcgggctt ttgcccttct aatncttnc 540  
agnattttta nacctttttc ttgaata 567

<210> 9251

<211> 574

<212> DNA

<213> Homo sapiens

<400> 9251

gcttttcaac aaagattcaa catcttttat ttacatgttt atgacataca ttaatgggtca 60  
tacacaattt ttaaactaaa tctagtaaca acagaggatg gaacataaaa gacacaattc 120  
caaattttag tcagggtgaa atgtttttcc actaactgaa agataagata aatgagcagc 180

cattataaag ttatgggctg tatgtcaatt cacgtcttaa aattgaaagt cagccacaca 240  
 gctgttaaaa caatgggaaa ttgcaaag caaatatata atgcatgcac agctatcaca 300  
 tttattcttt atccttaaag ccatttttaa agtaaactgg gagaggcaac ttagtaatat 360  
 gtacatcaag gcacattctt ttcttgtgct ttaggaatga ttacatgtg atctgcttat 420  
 atcttaattt tatactttat aacagcttct aatacctaaa agcttaattt ttaacaatta 480  
 ttctttgagt ggtagtttcc cacaaaanaa atgtggcatc tctcatgggt atttccaagt 540  
 cagaaaattg gatacctgaa gaagtnggat ttaa 574

<210> 9252

<211> 495

<212> DNA

<213> Homo sapiens

<400> 9252

gacagacata cttttattct tttatttttg agatggagtt tcactgtcac ccaggctgga 60  
 gtgcaatgga ncgatcttgg ctcaactgcaa tcctgcttgg gtgacagagc gagactttgt 120  
 ctcaaaaaaa attcttttaa ttaaaaaaaa aaaaaagctt tactacttcc tgtggagtgc 180  
 ataaaaagtt ctccctttg ttttagtcat ccanantaaa gtcatagggc tcaaagtctt 240  
 tccggaagcg gcganccagg gtctcctcgt ctcccttgcg gatctgacac tgcctccagt 300  
 cagacttate aggaacatta agggatggct tccctggcca ngaactccct tccaaactgc 360  
 aaangaaaat tctttttaat tctgtggaaa ancttttctc ctgtgtcaag ttcaacataa 420  
 aaatatgctg ctccctggctg tgcaatctgc ttgangtnna aatgctctgg gaattccaac 480  
 anctctatct gcngc 495

<210> 9253

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9253

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ctgaagtggg gaattttaat attgtataaa aaatccaact tgttccacaa gtacatatgt 60
cctatgattt tatgcataca tccatataca tatatcaagg taaagtccag tacaaaaaaa 120
cagcatttcc tatggccagt gttctacaga agtaagactg tgcaaacttt atcgtatagt 180
caaatganat tgcacactaa ggcaggatga ggcanaagca agttgtgtcc acagtatatt 240
acaaaatacc ttgcatagct tattcattct cacctggtaa attcatctta naattctgaa 300
ggattttttt cctaaaataa atttatacaa gttagtggta tacttcttgt ctttgttcct 360
gtggcaaacc angtttctca gtactgattg ttttacttcn caacattatt gatttaacaa 420
taacctganc tttggggctc tgcactgcgt tcattgtaat ccgtgataca atgactacaa 480
atgttttncg aantctaata tccacctgtt tctcaggcga attnccaggg gtccaatccn 540
ctgtgtcatt ctcnnaaacg ccgtgttaaa ttcctt 576

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<210> 9254

<211> 446

<212> DNA

<213> Homo sapiens

<400> 9254

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caaagagaca ataatttatt tttaaaaacc attaaagact tgaattaatg gagagataca 60
gaattatcat ggatagaaag ataacattct ttccccaat taatctatan attcaatgta 120
attctaataa aaaaccttaa cccgattgtt taattctaca taatcattta atcctaaagt 180
tcacagaaag agcaaggggt caagaacagt caaaaccatt ttgaaataca ganaaggggtg 240
ggcanaggan acttccttac cggatgtcaa gaatttagga taaataacag agaggggcatt 300
ataatcagca gggaaacggt ggaccattcc ataaactgct aagacaactg attatccata 360
tgggaaaata atggacttta tgccataaac aaaattnnnt tcaaagtga ttaacaaaat 420
anaaaggcna aatcctnaaa ttttta 446

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<210> 9255

<211> 305

<212> DNA

<213> Homo sapiens

<400> 9255

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aaaataaaaa aggtttttgt gctttattta ttcntgggcc ttttgagttg aaagggaaaa 60
aagttttaat attttcaggt tggatcnca aggactgaat aatacactta tgaaggnttt 120
caaaaaaatg cttgatttgt ttctaaagga aaggctgctg atggtaattt gtgtgctgct 180
gtgcaactgg atganctgga actgtcaccg gaaagcctgc cagttgaggc aaattggaan 240
tntgttctg ataaaatnac atatccacag acatcccent ttgctgtgtg taagcagttg 300
tncca 305

```

<210> 9256

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9256

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gataaactct agtattttatt aaattataaa ttttgtatc aaaaagaaaa atgcagacca 60
aaaaaacctc aaactataag actagacagc aaagcctatg ggaacaccat gaaatgtgtt 120
acaaacattc tgaacataa gttactggct gttttcattt ccatttcaat aactttacta 180
taaaatagtt gttattcatt tttttgaaa tcccaaattc acatctattc atacattaaa 240
ttatgtttcc tgttcataat atcaaacatc tcacaggtgc caaattttag taatggtctt 300
atgccaatcc atgcagaaaa ataagacaca atgcaggagt cagatgagga ccattaatgc 360
acagataatg caaacacact ggccaaaaga actacagaag tttttaaaaa gtattaagta 420
aacagacctc nagaaaactg gggtattact aaacagctct cactattaac acccaagttc 480
cttacattaa ataaattctc acaganactg ttanactttt aattatgaat ctatccttcc 540
cataccctc caccacaact cccaaatgcc tactagggaa gantntaagt ttnttgg 597

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<210> 9257

<211> 401

<212> DNA

<213> Homo sapiens

<400> 9257

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aagctggaat cttgctctgt ccccaagctg gaatgcaatg gtgtgatctc agctcactgc 60
aacctctgcc tccccggttc aagcgaanct cctgcctcag cctcccgagt agctggggat 120
tacaggcaca agccaccacg cctggctagt ttttgtatit ttagtaaaaa tgangtttcg 180
ccatattggc caggctggtc tcgaactcct ggcctcaagt catctgcctg cctcagcctc 240
ccaaggtgct gggattgcan gcatgaacca ccgtgccag ccaatgactg tctcttgana 300
aggggtgaan gacttggcat acngcaaaac ccaagatcaa attcctgggg cctgccatgg 360
cttgggtngg ggttgggaaa ntgttaggga agttaatccc n 401
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<210> 9258

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9258

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attctgtaaa aatggggaat ctactatat tgcccangct ggncttgaan tcttcgcttc 60
aagcaatcct ctacttttg nctcccaaaa tgctggggat tatgggcata agccactgtg 120
cccagcctag caaactgttc attttgaaat ggtaatttt atgttaagt aatttcacct 180
cnagtgaaaa aaaggaagan gaaacagtac tgtgttcac atacgttgtc ctcaaanaca 240
gcctcagttc tggcctggga cttttccac tataaaacct gttcacatca gancatctgt 300
gancaaaggg catggcactg gangatttgt gggagaaatg aagtgagaac ttacatggca 360
cctcagtatc aaccctcat cctcatcana taaacctgct ctccacaagc cttcccacc 420
tcccantca acaaggctcc tttcccggtt cctcccatcc ccaccgcag nctctctct 480
gaatccanca attctgctcc nanca 505
```

<210> 9259

<211> 593

<212> DNA

<213> Homo sapiens

<400> 9259

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acttcagaaa cttttttact taattttcttt aataaattac tgcttaaaca ccctatctcc 60
caactatatt ttacatttc aaaaattatt tctaaaacag anttgtaatt ttaaaaggca 120
cctaccatcc atatgacata ctgattaata taatcaggat cactgagttg atttattaat 180
ggaggaanaa ttccctcgtgc aaggatttcc ctgacaaagt atcgcatgat cttgttctgg 240
aaatctccag gaggtagcaa taaatatagt aagacctcac acaaatccct taggaatcct 300
tcttcatctt tgggggaagt gcacactana tcacggcaaa cctccttctc catttcaact 360
tcaacttcaa agaaaagtat ctacaanac ttctgctgta ctttccatt gatcatcttt 420
ctctgttatt ttctgttgag cctttctgaa tactcntaag tgtttgccaa agtcatctac 480
aatgctttta ttaaaataaa ggtgccagtc tatttctttt gacctattac caactgaaat 540
aatncttttt gaaaattctg cccatttcca aaaaaaaaaat cnnncnccctt ant 593
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<210> 9260

<211> 455

<212> DNA

<213> Homo sapiens

<400> 9260

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catggtcgaa ataattttat ttatccanaa tatacagttt aattcctcta tctacactta 60
tttcatggc taaaataaca ttgaaaaaag tcttttgaaa agttgaggtc ataaatttca 120
aggcaccatt gaaagtgtcc acagttgcgc aaaaaaagtc ctctgtaaaa aaaggggggg 180
gtcttttgaa atgcaataac ttacatgcaa aaaaaagctt tacacatgaa tctttttcag 240
ttttccgaac ttccccatat gaattccttt ctttatgatt ttctanaaca gcaaaacaca 300
gtagtccna aaaagagagt aagagagagc agcccatcta atanagtgtc ccggaggcca 360
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gcgccagcgg gtgctgtaag gagcccggcg gcggcaggtg ggaattgatt ganctggctg 420  
cacttggtga ccangatgca aanttctcca nntta 455

<210> 9261

<211> 535

<212> DNA

<213> Homo sapiens

<400> 9261

gtgatttaat tatggtttat ttcacagtta tcaaaactaa ataaacaaca gggtaaaaaa 60  
tatgcacaga ttaaattctt aatcagcaca atataagttg ctttaaganta ctctgttcaa 120  
aataaaggtg ttattaacca caggaaaagc tgtttttaag taatctgaat aaagttttac 180  
tcagtttcat gactatcaaa aagtcttgat ataacactac agacagaatt aaggggttta 240  
aatttttagga ttaanaattt agctatctga ataatttaaa tttcaaacad ttttctttcc 300  
ctacatttca ctggcaaaat taacttcaac tattattcaa ttctcctgga ttatgcaaaa 360  
gctgctgaaa atttgatgta tgacacattt ggctgacact ctattgcaac ctatgaatgg 420  
gtttaactat tacacagtat tcattttcct ttcaaagatt ttacacaata gtgacagtna 480  
nanaaaatat gtnttaacaa aaaatcccgg aaaatgggcc tatatganaa atatc 535

<210> 9262

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9262

gggncaaaaa aactttatta gcttagtctc caccctttta aatgtactct aggtacaaaa 60  
taaacattat acacatataa natcagtctt tccaacttta gaatgtataa ataanaatga 120  
cattttaaaa taaaatagtt tagtcacagt cacacaaaac taccttctaa ggaaaactgt 180  
ccagtgaagc cgttaaattt gtgctttcag ctatgaanaa ttaaacttaa aatgcattca 240

ttctttctttt aatgaaaaat aacctaccct tggaaacagc ataagcattg ttatggtagt 300  
ctanctccta aatgaaaatg tggactgagt tacagtttac tgtagtaacc tacctaagaa 360  
gcctttgaaa attagcaatc gatcnaagta ttacataaa ttcaagcctt tttcttagga 420  
caaaaggtaa cacagttcct taacctcttt taaaangaac tttgaaatta aacttatggt 480  
cacacttcat tccaaaatgt gcttaaatat caaatcctc tcncanangc natgtccatt 540  
tcctcgtaac ctccctgtt a 561

<210> 9263

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9263

gagatggant ctactctat cacccangct ggggtgtaat ggtgtgatct tggctcactg 60  
caacctctgc ctctgggtt caagcaattc tccttgccctc agcctcctga atagctgggg 120  
ttacaggcgc ctgctaccat gcctaatttt tgtatttttag taaanatggg gtttcaccat 180  
gttgatcagg ctggttttga aatcctgacc tcaaatgata tgcctgcctc ggcctcccaa 240  
agtgctagga ttacaggcat gagccaccgt gccagcccc atttgttttt ttttcaagcc 300  
aggcttcac canaaaaaan aatctgtatc atccttgctt catctataga aatataatat 360  
aaataaattt agcaagtgat atttctcaa acttgtttcc tctttcctcc tattatctct 420  
actccgattt ccttctactg tgctttttct attttcttaa atatttatga atctcattgt 480  
ttctttctct caactgtatg ttttaaant catctanttt taaanattca ccattgttac 540  
ccccattcat ttncataattg gnccaattaa cattga 576

<210> 9264

<211> 542

<212> DNA

<213> Homo sapiens



<400> 9264

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gctagtagaa catatatatt tatttttatt ctgtatgtta acatatatat taatatatat   60
atagaagcat gcatatatag cctaatatga tggaagtata atagatttaa ctatatttca  120
agaaatagta tctatgcata gatagataaa tatgtacata tttctaaagg agaagaacag  180
gaattttaaa atttctttcc tcatagaact atggcattat ttttgctata accatttaca  240
taaagtacta tattgttaca gatatcaaaa atgttcaaat ttatggttgc ttatgaaatt  300
gtcattagat tttaaagcct gtgaagaaaa ggccatacat atttatcat ctttgaatct  360
ctatagtcct gggaaatata gtttaccatg tcaactttcn ataaaatgaa ttaatagtaa  420
gtacatctta aaataatccn gaaaaaata aactttaaca cttccataag ataattggca  480
agtaattaat atacctccct tttactttga gaaaatanat cccctatttt cccnnngttn  540
tt                                                                    542

```

<210> 9265

<211> 381

<212> DNA

<213> Homo sapiens

<400> 9265

```

gaacgcttag taaaatattt cattcagtag gtcttggttt tctgagagag gcaacggcag   60
agggttgggg gcagtgtgtg tgtatttgtg atgaacctaa ctctcatgc cagttctctc  120
gagatttctt cgcgggggct gccgcgagga ancacctcg cccctgtcgg tggaaagaag  180
gaagagagtt ctctaccaca gaccgctgtg ggtgtagcca ctgggtccgg ctctgcaaca  240
aacgggttgt gtatgtgtct gcagaactgg ggtgacgcc atctggttta ccgctcaggg  300
tgatggaatc cantgagctg attaggagaa cgctgtcatt ttccccagcc tgggggtacc  360
atcaaatcgc ccccccttg a                                                                    381

```

<210> 9266

<211> 502

<212> DNA

<213> Homo sapiens

<400> 9266

```

cttgaanatg ttatttcggt aaaactgaag ctctttgatg ctttcactaa tgtcatcaag   60
tgccctatga gaagcagcct tctttggtgc aaattcatat tcttctggat accagcgtct  120
gcacagttct ttaacagtgc tcacatcaat tattctataa tgaanatggt tcatgaactg  180
gggcatgtat ttgtcaagaa acttcttata ttcatgaact gaatttccta gaaagacacg  240
aagcatactg catctctata tttctagtat tataacaacag gatatcaaaa ttcataantt  300
gtatttgaaa tggagatnat tttttaaaat tcaaacaatt cctaaaagcc ctctatatatt  360
ctaaatcagg tttgggtaaa tgtgattagc ttacaagtac agatttccaa gtacttagtc  420
cgtttancct ccttataaat ttgttaatga cncacctgaa cagaaaggac aatctntcnt  480
cccatgcct tgaatnttat gc                                         502
    
```

<210> 9267

<211> 540

<212> DNA

<213> Homo sapiens

<400> 9267

```

aactgatgaa acatacatTT attttttcca atcaagtctt aaaagtttga tgaaagcgca   60
ttattgttac caaaagtctt caggcaataa cagagataaa acttaacaca gacaaacaat  120
gattttattc catagtctct tggacttgag aatccatttg agtttcagaa agaatactaa  180
attaatgggg gttatgtcag gatgccaatg tccatgctga ggcttctcct gatacaatct  240
tttgcaacat aaccaacaaa gatcaggagc ttaaaacaaa acaaaacaaa aacaaacaaa  300
aaacaagttc atgttatttc tacaatgtcc aaaaagaaag accaagatct ttgcttaaaa  360
atagaaatgc atnctgcngt ggctcaaaaa cttaggcctg catccaaatt acatgaagcg  420
cttgtaaaaa cagattgagc ccctctgcn aagtttgtga cccagtgttt ggtgggggcc  480
aatnatttgt ntctacagg ttcctaantg aatcaagccc tgggtgtcgaa acacctttaa  540
    
```

<210> 9268

<211> 474

<212> DNA

<213> Homo sapiens

<400> 9268

```

acttgacttc aatgancctc tcggcttctg aagcacctgt aataggttag atacacccaa   60
aacgggactc aacatcagct tccggctcac tgattttcgc aacacagatc tctgacagtc  120
tttctcagaa atgtatcagt acgttctcca agttgtgagc tgttttttca tctttttccg  180
tgtctgcttt ggcttcccag gaacttanag tttctgctaa atggttaaat agctgccccat  240
gttgcaatcc tgggtctttg agaactgcat caataaaagg gatcaacgtg tgcattgtctt  300
catttgatc ctttgtaata tcatttatag taaactggta aattgtttct ctgagttctg  360
tgagacagtc tagcaaatta agcaaaccac angaaggggt catggggatc ccgaattaaa  420
atttaancct ggtgggcnaa aaccnagtt aaaaaaccng ggggctgcca atgg          474

```

<210> 9269

<211> 386

<212> DNA

<213> Homo sapiens

<400> 9269

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gtaaaattct gtatgtatgt caccattttt ttccacatga tacacagaaa actcaaggac   60
ccagagggga accaagttat gttataccat ttacaaaata ccaaggagtc cacagctacc  120
taacacattt actacagcac aggaaccaat gaaggtacag tgtacaaaaa actgtaaaca  180
cggcacaata aatagataaa acagcaggtt ccgcaccatg cacatgatgt gatgacactt  240
catctctaca caatctcaca tctcacactc tttgttgcaa ttgatttccc tcccaccccc  300
caccaccaan tgcaaagcat cacaatgaa catttctgtt ttcaantnac atntntacaa  360
ggggtattac aaatatgcag tactgt          386

```

<210> 9270

<211> 390

<212> DNA

<213> Homo sapiens

<400> 9270

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aaaaataaaa atatttat t ggaaaatatt agtagcatga taactcaacc tcaccagata   60
ttaacagttc atcaggtcag gcaatanaac aagtccacat gagcttctta aaaagaaatg  120
gatgaccact tcaatagctg actccatctt ccattttatt actggatgat tcataatcca  180
aaatatgaag ttttgggact ttttctcaaa aggagaaact ttgggaaagt gtctgaagca  240
atggtattga tctttttttt ccccttttat gaaactttaa ctgcatactt cagtctgggtg  300
gaatcttttg tgttattctg actggtccat aanaacccaa ggactatgtt gataatcctg  360
atnatttcan caacacttcc aaanttcnct                                390

```

<210> 9271

<211> 537

<212> DNA

<213> Homo sapiens

<400> 9271

```

catgtaattc agttgatatt taattacaag ggaactcagg ttcttacaca angcaggaaa   60
tggaatcagc cgctccccac aagccttttc aacctgggtg actgaagctg aagaaatggg  120
ganacatgga acatatgggg anggttctgg cacantgtgt cctgccccaa gctganggtg  180
gtggccactg gggatctgcc ctgcgctgg ccaaggtctg ccatcactcc atgangcaaa  240
actctgactc ctgctgtcgc atgttgggta acacatacag anccacagct gcaatancca  300
aaaataccat aggcttccac aacccaaaca tgttctcatt cttgtcgttc tggggggcca  360
tgggcttttc aaggcattcc atgcactcct tgaactccct ttcacangca tccanctctt  420
ccttcaagtc tttctgcttg gncaataact tttccatctg ctcttgcaac tgggctgttt  480
tccnccgggc ttatctgggtt acatggncct accnctgca cttnattaca ctttccc    537

```

<210> 9272

<211> 563

<212> DNA

<213> Homo sapiens

<400> 9272

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gagaaactat ggcacttta ttattttgct gttagagcca taaatttcac ttaacttcat   60
aatctatggt aagagtatta gcttaaaaat gtattttgaa aagattttac atacagattt  120
aaaagatagt accttgaaat ggtttacagt taagcaaag aaatatcaca aatacaagca  180
gagctttgag atctgagttt tgtaaagct anaactttgt ttcctaattt tttagttcct  240
caaagaatta agaggctgca ttatataatt catttttagta tgtttacctc aagtactttt  300
agaactagac tgtattttca ctgccacaga tgtatcatgc agggagtatc ctggttttaa  360
ttctgaagtg ctttcactcc tacttggttc accttgaaaa tcgtctaaaa agaagttggc  420
acattatttt gcgaatgtta ctggacatca ggaaatacat gactggatct aagccactat  480
tgaaagatga nanaaccccc tgatctccnt gggtttgta aaaattcttc ccnttccaaa  540
aaaacttttn ccgtgtaaaa aat                                         563

```

<210> 9273

<211> 381

<212> DNA

<213> Homo sapiens

<400> 9273

```

agagttatga ngttttcact tttatttata aactcaaaaa gggctggagt tacacgatat   60
ttatttgcac acagcttcgt gatgtncaat gtgtgttcac atgctccatg ttttttgatc  120
cccacgtaag gctgtgagat agacttgatt tattagtctt ggtttttagg ctgaggaaca  180
agtccaggag gttcaaggga ctcatcagga tcacacagcc agaaaatanc aaagtctgtt  240
cctgactcca agtcagtang ttttgtcagt ctgtgttggt gttggagana acagtcggga  300

```

gacacatgga ctaacacaaa angaatggat gggagancan gcaaaggttt ggacctgcct 360  
tgtcatccca caggacangt a 381

<210> 9274

<211> 485

<212> DNA

<213> Homo sapiens

<400> 9274

attttacttt aaattccggg atacatgtgc agaacttaca ggtttgttac ataactgtat 60  
gtgtggcatg gtggtttgct tcacctatca actcgtcacc ctagtgtaa gccctgcatg 120  
cattagctat ttgtcctgat acttcccctc ccctcaccct cacccccacc ccaatangcc 180  
ccgatgtgtg ctgttactct ctctgtgtcc ctatgttctc atagttcagt tcccacttat 240  
gaatgagaac atgcggtact tggttttctg ttcctgtgtt agtttgctga ngatgatggc 300  
ttccagcttc atccatgtct ctgcaagggg cattatctca ttccttttta gtccatggtc 360  
tttttgcaat gctagataat ctctctaacc ctggcgggga aagcncctgc ctgcctaaca 420  
atctttgttt gctcatgcat tccatcnanc ctncatgcat ttcctccaca aaaatttaat 480  
taanc 485

<210> 9275

<211> 423

<212> DNA

<213> Homo sapiens

<400> 9275

acttggccaa ctggctcttg ttctcaacce tgtgaggag gcatcaacce tgtcgggtgta 60  
cagatgagac tgtggggcag agccanctcg cccaaggcac ttgcttacia tggcagagac 120  
agaccttgat acacaggact ccctgataac tgggcatggt gtctcgatga gtcggggaca 180  
ggtttcccct cttgcatctt gtaaacaaaa gccacccta agtcaggaat cttcacacac 240

aagccccagg aagctgcggt ttccctccta gctggcctct ggaccgagtg cagccccact 300  
 tgtctccctt tccctccacc atgtcaggct cagactgggt caggccagggt angcaacaga 360  
 gttggcccag ccatactctt ctggagactc tgaatcccct gggacactct canggcaaca 420  
 naa 423

<210> 9276

<211> 384

<212> DNA

<213> Homo sapiens

<400> 9276

acatgtctct gcctctgttt tcagtgtggc tttggacagg aatatatgaa taaatcactg 60  
 ccatacagggt ttccaatac acaagtgcta gaaaatacac acaattcccc aatgcgtaag 120  
 ttgtgctaata gtctttccaa gttctgggtt gggaagtgga nggtggcanc gtttgtttgt 180  
 gcgcaaccgt ccagtcctgt tcacagcgag gatttggagt cctccagggt ctcacatgg 240  
 gagtgatttg tcagcggacg cctctgccct gtctggcttc aggtccaagg aaactttgaa 300  
 ncantcaagc cttgtctttg taccccatgt ntctgtctt tgttgantca ctcaaaaatc 360  
 actcctggac cncctgggggt tgga 384

<210> 9277

<211> 330

<212> DNA

<213> Homo sapiens

<400> 9277

gcataagaga ttttaagaga gcagatttaa gaaagattca gatgacttca cgtgagctac 60  
 tgaccatata aaccttgcac gtgctggccc cagggaatat ggaagcttcg gaaggtattg 120  
 ctctgccctg cctgggtccc ttgctcctat tgcagccaga agtcccaaaa aacctcagaa 180  
 cagatatattg cttctagggg atatgagggg aaagcaccgg gaattacat gaggtaatgg 240

atacggctat gcaggtggct tcttgatgac aataaccnt cctcnggagg aagctttttt 300  
ttgtttcttc cncagactcn aaatanctga 330

<210> 9278

<211> 537

<212> DNA

<213> Homo sapiens

<400> 9278

ccaatttaaa ttaaacttcc tttaatgaaa taaaaaacia atggtgcatt gcataatatt 60  
tgtggtcaca gtataaaaca atacaattag ttcataaac attggatatg gacaaaaata 120  
cacaagatcc tttctttgtc tacggaaaat tctgcagatc cttatgtgcc acacttaaaa 180  
agaaagtcag cgttttctct tctagggatc tgcacacata tttatcactg anaatttggt 240  
caaacagtgg agganaactt acccaaatcc cagtccctt cttcctctgt tgtcatcggt 300  
gaagctaaaa aaaagttttc tgaaagtagc aagttgtgta ntattgctta ttattcctgc 360  
caaaaaggct cantctttgg ctacacagatg tcngtgacaa aatcatggct gcaggcagtc 420  
tgcaaancaa gaaacaaggc ccccggggaa acaaacnaaa gtctgggcag gaaggggccc 480  
tctnccaaaa tctccgggan ccccncaa at ggtaagggtta aggggggaaa aaacncc 537

<210> 9279

<211> 339

<212> DNA

<213> Homo sapiens

<400> 9279

cctttttaca aaaacatgca tacatacaca gggatatggtg ggtcctaaga aanaacacac 60  
acacgcctca ctacacaca cgctcacaca cagcctcac tcacacacat gctcacacac 120  
attttccttc ttgaccccag gcctggaccc ccaaaagcct tgaaaacttt gccanancag 180  
cctcccctcc tccatgtctg tatcttctct cccaccctt cccctcagt caggctattc 240



ctatgtgggg tgggaatcaa aactatgggtg ggggaagccc ncaaacaaaa aaaggtcccc 300  
ccaattgggc antnggccca ggggtcccan gggtatnct 339

<210> 9280

<211> 413

<212> DNA

<213> Homo sapiens

<400> 9280

acatttgta ngttctcacc agcaagaatt ctttgaaaaa tcctgggtctc agattttacc 60  
ttaagaactt gccacattca gtacatttag taaagtttct gtctctatg gtctanctaa 120  
cggngtatta agccttgaac aaaaactaaa ggntctgcta cattcattat acttgcaaag 180  
ttttctcca gtataaatta ttgtatgtct tacaagggt ttaatgctaa ctgaacactc 240  
tgccacatta attacatgtg ttagatttct ttccggcatg aaatctctga tgacgtacaa 300  
natatgaatt gtcgcggaaa naatttgcca cattcattac atttgaaatg tttctctcca 360  
gtgtggatcg catgacnana tantgaggct tgaacgcata ctaaaanctt ggc 413

<210> 9281

<211> 452

<212> DNA

<213> Homo sapiens

<400> 9281

cctcganatg aacatcatcc tttaatatgt gccttttcca tttcatcaca aagaatatta 60  
aaaagacgtg tacttaaggt ctganattta ataaaattaa taatttttac tgcttcatca 120  
aaaacattct taagtcaaac tggcatttta ttgtaagtgc atggtggtga aatatacaac 180  
tgctagtata atttggcacc acttccttgc tttgtgctaa ggncccaaca gtttcaccca 240  
cctttgcttt ggtaccattg gtgcaaatgt cagcagggtg aaaanacaaa actgtattag 300  
tattattata aaaatagttt aaccttgc an atgctctaaa aagatctcgg ggaccactcc 360

cagggatctg caggtnacac ttaaaaaaac cncgtctcta tttgccatat gctgccaaact 420  
gtnactcntt tatcccaaaa tttnttcctg aa 452

<210> 9282

<211> 381

<212> DNA

<213> Homo sapiens

<400> 9282

gcagaaacat gtactttaat tcacattttc tagattctgg tgggtacaac agtaaattat 60  
ttggaattct gttcaaaatc aaagctgcac ctgtagatat tccttaaaat acagtacaca 120  
tagatttggt tgtgtgtttt tttaccaa atattccacg ataccatgca cctaattctgt 180  
gtattttggt gantagctat ggtttctgca ggtacctcag tttgcaaact actgaaaggt 240  
ttactgtgaa ctgttcccaa attttcagct gaaggcaatg ctgatnaaaa tcaaaataac 300  
tgtcctttct tatatacagt ggcacatagg cnaagttgaa aaaacatggc aaantttcat 360  
atacttacng anattacaaa t 381

<210> 9283

<211> 447

<212> DNA

<213> Homo sapiens

<400> 9283

ccaaaaccac acagcttccc tttttattga tgctcaagaa gtgaacttta aatgacattt 60  
cataagcaaa acacaaatga aaacacctaa tgtgcatgta tagtatatgt aaacatacat 120  
agtatatgga ctcaatcatc ctcatctaaa tataaaaaga acaactgggt ctttgacctc 180  
aaaaataaat tcaatgttgg cattactgtt ttttaacttac agtgttttat atttaacagg 240  
aaaaattatg aataaccaag tttgggtgtg tcatggattt catgttaagg tataaatana 300  
gtttttaaga aataatctgt ntaataaaat aantttactt ttgaatcgca gtacagtcac 360

tnccttcaat caataaaaaat atcccttgat tacaaagcac cttattttgc aaatgtnttc 420  
aggaaaaatan ctctancatn ttgaaat 447

<210> 9284

<211> 361

<212> DNA

<213> Homo sapiens

<400> 9284

cctcaggacc caataaattt tatttcaggt ggggataagg gacaagcaat gtnaaaacag 60  
ggaaggaaan aaggaagtct ctatnttctg aaggactgcc taccctactg ttganagtgc 120  
cacattctgc ccttttagca attttaatta atttttacta ggactttggt aacaccacan 180  
aaaccctgtg gcttcctggt aaaatgactg tggtacatgc cttattttta ttaaagtgga 240  
atttaacaaa tacttttatt attttgaagc atttcatcna ttctcggtgg aagcactaca 300  
tcatcgaatg ggaaatcnac naatgaaaaa tgaaaaaaa gattatcctt tcccagtnag 360  
c 361

<210> 9285

<211> 336

<212> DNA

<213> Homo sapiens

<400> 9285

actttttgaa agtttcattt aggtgctatc atttaaaaaa tcagaagata tcacttaaga 60  
atccagcatt ctagtttctt tcgaaaaatc agaagatctg gcaacactag gccacattc 120  
cggcatggca acaaccagct anagcgggtc tggtctgncc ccctctgtgg ggcttgtgct 180  
ctggtttctg aagtcctaac cctcaccagg cccaactgcc acctacgcca gctgcatggc 240  
ccctacactg tgtctctgca cgaggcagcc cancangaag gaacaanagt ggggggtgatg 300  
agaggttgct ctgttcagcc ctccccacta cccaca 336

<210> 9286

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9286

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canaatacat ttctttctta atctttgtga gtacatacca ccatactggt ggcaatggcg   60
gtgagagcct ctgtggacca ggggaagctg tgggtgtgagt tccatgctag ctctataagc  120
caggctctgg ggcagcatcc aagacgctct gtattanata ctgaccagtc tcatgtgcca  180
ctggtgagga ngaanacaac gtgcttttcc caaagggcga tgatctcccc aaatgatgac  240
ccttctcagg aggcagganc gctttcccgg aataaccttt tggctcctta ttcagctgct  300
gcagcanata ctcatataatt accaccaagg atctctgact ttcatggaan aatggcaact  360
gtcttctccc gctttttcca nctnggcaan ctcttggttc caggcaaccc ccctgcatgg  420
tcacctgttg gtttttgtcc aaaaatcanc ataattnttt gactgttgcc cctcccaatt  480
gaaatggcnc cctnccncc actgttgaat ttttctga                               519

```

<210> 9287

<211> 452

<212> DNA

<213> Homo sapiens

<400> 9287

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ccattcanaa agcctatact tggcctgttc tgggcctgat tanaaatcat aataccttct   60
caacgcttca acnacttgct gttaatacgg ggaaaacaca cccccaagc cctgcgtgtg  120
tcgcacaggc atgctgcctt ggcgatgctt tatggaactt ttttaaaact acgtctgcaa  180
tgtctgcccc ttaaaaaana aaagctgatg ggcagcaaac tgcagccatt tctccatctt  240
ccttcgcttt cccaccccca tcctgggcag ctttcccctc cccccaatct cctggagggt  300
gtggcattaa gctctgcagt tgtgtgcaca ttcaagtgtt tatggcaaaa actggggaaa  360

```

aaanancaaa ttgtttccaa gctaganctc ccatgttgca actttgcttt anaaaanact 420  
tccatctggg gaaagctcat attctgatga aa 452

<210> 9288

<211> 483

<212> DNA

<213> Homo sapiens

<400> 9288

ctctttcctt tctttctggc tctttttcac ccaggctgga gtgcaatggc aagattatag 60  
ctcactgcag cctcaaactc ctgggcccac gagatccttc cgtttcagcc tctgagtag 120  
ttgggaccac aggtatatgc caccacgcat ggctacattt gttttgtttt gttttgttta 180  
agagaaggat gtctcactag gtttctcagg cctgtctaga actcctggac tcaagccatc 240  
ttcccacagt ctcccaaact gctgggatta cagggtgtgag ctactgcacc aggcagggtt 300  
tttgtctttc tgtgagggaa atgtgggaga gacagggaga tgttttctat ttttggcctc 360  
tgcaagcttt aatatatttt gctagaagct gtttttagtgt cttgagtact ataatgatga 420  
ctgtttacac atagtctctt tagtaatcta aatgtctatg tgaaataana ntccanttgt 480  
gcc 483

<210> 9289

<211> 432

<212> DNA

<213> Homo sapiens

<400> 9289

atttatTTTg agacacagtc ttgcTTTgtc acccaggctg gaggTcagtg cagtggcatg 60  
atctcggtc actgcaacct ccacctccag ggtTcaagtg attctcctgc ctcagcctcc 120  
tgagtagctg ggactacaga tgccccccac taagcctggc taatttttgt atttttagta 180  
nanacgggggt ttcacatgt tgaccaggct gttctagatc ttctgacctc atgatccgct 240

cgcccttgccc tcccaaagtg ctgggattac aggtgtgagc cactgcaccc agcctaaaag 300  
tcattttaat ttgtaagata tgtttactgt tttaganana canaagctaa cttttcattt 360  
tcaaggactg ctgaacaatc atccatgaat tcttgaaatt gaataacang aaactgttnc 420  
ttgtttttcc aa 432

<210> 9290

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9290

aaacaaatta actttattac attgctactt caacttcagt ccttacattg atttgttttt 60  
taaaaaatac cagtttgaaa cacattactg aaagtgagtg tacacaataa atagaaaata 120  
gggatgcata gtgctggana cattcaacca acttatcttc atctgttgcc tactgttgta 180  
gacaaaattt gacacacaat tagcatcact gaaagagcag ccaaactacc tcggaaaaag 240  
tggaacta ctggaaaagt agcttaaagc tctggaccac tcaccnnna aaaaaaaaag 300  
aagaaaatnc cctgtttatc tgggagctag cctcattatg gcaatgaaat ttatctacta 360  
gtcataanaa caatttttaa aatatcaaaa ntccaggga ccttcctaa cagtttttgt 420  
ttttgttttt ggaaacaaat cccctctgt tgcccaggct ggantgcaca ggggnatntt 480  
ggntaactgc anccccccc 499

<210> 9291

<211> 414

<212> DNA

<213> Homo sapiens

<400> 9291

aattcaatat ttattatag tccacgtata aagataattt tcatgagggt tacatgatgg 60  
atagctagca aaagaaatat gctagcacag ggtggtaact gccaaactaag catgcactga 120

accaacagac tacttcagta agtccttgat tattgccagc ttttctataa tgttcaggtt 180  
 ctcaaaggtc actgaatitt ataattatct ccaaacaatt ttcttcatgg tcatttaagc 240  
 tttgtctaaa cagctgggtg tgttgccaag cgacatcacc atctcctctg ctttaattctg 300  
 ctccaaaaat aacttcagtg gcaccagaaa aaatcancat aggantgaaa actgttatcn 360  
 cctgtcagtt ctacttgtgc tgtatcaaat cgcaatttcc atnctnctgt tcca 414

<210> 9292

<211> 521

<212> DNA

<213> Homo sapiens

<400> 9292

ccagtgccta tgacattctt tattcaattc acatagaaaa gcatgcagta ttaatgtnaa 60  
 acagtacaat attaatgtna aatgttcagt gcacattaaa cagcatacaa acccattttt 120  
 aaagacctat ataggnatac caaatacgtt tagaacaata cactttttca nagecctaaat 180  
 taaaaattgt gcttacctct tacctatctt caccctctca acactcttca cagaaaagtt 240  
 ttgtcctaca taaaanatat tctatcagcc aactgaaacc tctttttctt aagtatggaa 300  
 aacacagcaa gcaaaaatgc taccatgcat agtttccaca aagaacagga acatgcaaac 360  
 aagaaacata ctactcaaaa gaaaactccc ctggaatgca agtggatcaa gaacttggcg 420  
 atgaagctct ttcaaacctg ttacatctgg aacaatgaan ctatgangtt ttaggtccnc 480  
 taaaacccaa gtggtcnag gcctccttcc ntagtatggc c 521

<210> 9293

<211> 465

<212> DNA

<213> Homo sapiens

<400> 9293

aatgggcatt gtgaatgaaa atatgtaatg tcaaccttta ctttatggta tcttaggttt 60

gtctttcttcc ccttcatagt tttccccttt gaggataacc cttcaagctc aaaagggcac 120  
 aaaagctaaa acgttattca cgtncaaaat accaagtata tagctgttct gcagtttgat 180  
 acagaacaaa agaaaataac ttttctaatt aaatccctca ttctgtactt aggccagact 240  
 ccatccccac tacagtttta cttgtattaa caggttaaga ncaatctagg aacatttggc 300  
 aaacaagtac attttttaca tggaaaaaac tcaatcaaca tcaccattct ctggtacaag 360  
 aaatacaaaa cacatttcct ttaaaaaatc ctcccagtcg tgaagtntct tctaagcttc 420  
 ccanantatg tcctaagctt tataaataat aaatctttca nanat 465

<210> 9294

<211> 557

<212> DNA

<213> Homo sapiens

<400> 9294

attttttaaa gctcatgtgc accagaattg agaatcatag aactagaaaa ttactgaact 60  
 ggaacacaat ttcataataa gtttccacta tcataacaga gttgaccagt tattcagatt 120  
 aatccatgta aaacctgata acccataaac ctttttctct tggactataa actcatagaa 180  
 ttaaacaagc acatcctttt acttcttggg ggggaggccc tcttcattga actttganag 240  
 gctcaggtca ctaccacaca tggaaaccta agagtaggag ttcgggtagt atggctcaat 300  
 tactgctgag ttaccacttt tgtcctgctt ggccaaaagc gctaaatgga agagtagatg 360  
 aaaaagacac aatgcatata tttttcattt ttcaaatac ctttttactg ttcacatttt 420  
 aaatggagac aaacaccccg gaaaacnaag aacacttatt tgccaaatcc ttttcccaac 480  
 nttaagaccc ctttgattcc ctccattact cccaaatggt tgttttccna aaattccnnt 540  
 tccttacaaa tcctgan 557

<210> 9295

<211> 592

<212> DNA

<213> Homo sapiens



<400> 9295

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gaaaggcatc tatatataaa atctttatta caggcagtat tggccatac actaacacaa 60
taccaacagt acaggtttta tctttcaaaa tcatcattta aacagcaaaa gaccaagaaa 120
taaaatttga gtcaattatt tttcaaaata ttctcaatgc acattatcct taattccctt 180
attatagtga aacatacaaa tacagaaaaa taccctattt aacaaatact agtggttaa 240
ggttatttgg cttaaaatct gagttaagaa aatccttttt agcaacctac atacagataa 300
gtagcaaact ttattatatt aaacaaattc attctgctaa aacatgtaaa gaatttcac 360
catcatgtat tctgatccca gtacaagtgt ttattctctt accgtcacga ttcttatatg 420
aaggaccaac tcaaagantt gtcctagata taaccttacc ctctcccca cacacttcat 480
ccaaaantct gttcaacaga tggcaaccgg gttgcatcac ttcaccatct gatgccattg 540
gtcccgana acgtggccag gcctgtgaaa naccattcc nactacngtg gg 592

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<210> 9296

<211> 487

<212> DNA

<213> Homo sapiens

<400> 9296

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caaagccg cg caatcatctg cattttattt gcacctcatt tgcaagttgt taatttgcaa 60
ctctgtcct tccactccag gttccttctc tcccatcacc cctcaaattc cccagtggcc 120
cagnaaaaaa tatcttggtc ttgccaagg tanactcagc cttgtcagca ggcctgtcct 180
gtgttctcag gggaggcctt tacccaaggc cacaacaaca gcaggaatcc cgagtaanac 240
gccaccttga cggcagggaa ggctggatct ttacacaggg caaaactgat ttgatnaggt 300
gaacagtaag gtgagcaaan gtgggaaagg ccagtgggtg aatgcaggaa cagcaccagn 360
anctagaacc caactctggc ctgtgggctg tctcccggtc ctcaaaagcg gganngggtt 420
ccccaccac caccactgtt tccccattat ttcttgcat ctccaaacnc nggaaaaacc 480
caatncc 487

```

<210> 9297

<211> 305

<212> DNA

<213> Homo sapiens

<400> 9297

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acttcctaa aggaacctgt gatgcaaggc ggaataaaac ccctgattca tgtaagaagg 60
ctgatgtaga gcagtgggtc tcagcccagg gagcccagta gattcacctg gggagctcaa 120
aaccggctgt gtggggctgc agcccaggcc aagaaactca gcatctccgg catagtgaga 180
agggggctct gtgttgagga gtacaattct ggattcaaat ctgtcaccta gtgggtatgt 240
gaccttgagc ancttctaaa ccgttttgaa cataatctca tctgtgacat gaaggnttac 300
tcnct 305
```

<210> 9298

<211> 442

<212> DNA

<213> Homo sapiens

<400> 9298

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acaatagaaa aatattgttc actggtttat ttttccaaat gagcatcagg ctattttacaa 60
atacgcagcc ctccaatgac gtgtattaaa atggcaagtc tatcactgtt tgaaatctaa 120
atgaaaacaa atttattaag gcacatttga tctganaatt taactttctg gtataatgac 180
agattcattt cacttttgtc cccaaaacac atgagcacca aaattgtcaa agaacactta 240
atatttagta aaacagtaag gaatataaaa attaaggagg ggaaaaagcg tttccnaaag 300
gaaatctttg gagatcggtt tactgcaaata aaaacagact aaacaccctc ccgatacaca 360
taaataatac taactaacag gtctcaanaa tggcgaacct ctgaacacnn attttaatta 420
atttaanggt tttcccaatn cc 442
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<210> 9299

<211> 533

<212> DNA

<213> Homo sapiens

<400> 9299

```

gaagaataac aattgagttt tattcttta aggcatctc tgatttacat ganaattgag 60
aaactgagat gtatgatttg tctgttagtc aatttcacac ctttcattc tcataagccc 120
caaattttgc tcagttaagg agcttgcttt aggccacct atgtaagtct gttatactag 180
ctaattgtgc catttgaata gtccaagggt cagctaattgc tctgagcttc atggctccag 240
tataaanaac aaatttaaca aaattaagct gttactgtag ccgaattacc cttctgctcc 300
acacatatgt nttgggatct tgcaggattt ccatagtgcc aattatcaaa ggccttgact 360
acttancatt gctgtattac agatgtncaa actgaggcct gaaaagtcca atttaaagtc 420
ntattgaagg gnccaaaaag gaagcttatt ttggggcttt ggccatttta cctacttatt 480
taaaattgct gcnaaacacc ttttaaactt ttcaaattt ttgacggttt nna 533

```

<210> 9300

<211> 430

<212> DNA

<213> Homo sapiens

<400> 9300

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aatcattgag tgttttattg aacaattaag aaatgtntaa ccatttcatt actttacaat 60
agtaaaactg anttgtaact ttttctgtga atatgcgaat ttgtatttga aagantttag 120
acttgtattg aatgagatgt atcttgacta taaagtgttt tctttttcag tacaaaatat 180
acaaaccagt acatgtttta aacataaata taactgagaa taggttatgc ttctactcaa 240
atgcacttgt ggaaagtacc attcatccgc aaagacactt ttaataagct ttgacaggaa 300
nacaaactcg acagtgttgt cagattttct atttaaaatt acatttatat taaccccnac 360
ctttcatttt agcaaaatgg tttatggntt cntcnacttt ataattatta caaagttaaa 420
cttcnactcc 430

```

<210> 9301

<211> 473

<212> DNA

<213> Homo sapiens

<400> 9301

```

caagttattt ctatagcana catatTTTTg aagtctaccc acccctgagt tcagcaatta   60
tactttgagt gtaaaattat atgcccttaa ttaacaacat gtacaaagct acaaaatgtc  120
atctatacag attaaaaaca attttaaaat attatttacc aattattgat tgaatggttt  180
tactggggta cgtatttcaa acctttcagc caactggctt tcagttttaa gcccaaattg  240
attcatatat tcaactgcagg atatttcaaa aagagtgcaa caataaggca ttagtaaaaa  300
taacattgta gtanaaacan attttgcata tgtgaaaagg taatttataa aatacattaa  360
tcacttttta aaaagaactt anttgtagta tcattaactc ncatgggtac tgaaaaactg  420
gacctttcac aatTTTTTTT ttctataaaa anttccanct acctntaagc aaa         473

```

<210> 9302

<211> 482

<212> DNA

<213> Homo sapiens

<400> 9302

```

cagtagcttt tcaagtttat ttaaaaaagc agaacacaca aaaatacata caacacccca   60
gataatgtcc ttacagaat ccagtatgt ncaacagata cagcagancc tgtctgttgg  120
aaggtgggag gccctgcagc cctgtctccc tgcctcctgc tctatcgcca cccccccact  180
gcagcctaca aggttcctaa ggtacttttg gaaaatccta ggcctctgag gaacagtttg  240
aaanactact ttagaaaatc tttcaagact aacgttcaac tctatcctaa attataagat  300
aaagaggttg atgacaaact ggaaatcacc ctcntgcaga aaaaaacaaa caggggtctaa  360
agcacctan ggagaacaca atgtttctca aagcacaag acctcnagct ctgagccccc  420

```

tcctgtntta cctggggaaa tccttaacct tctaggcctt anctncctcc ctntngaatt 480  
ta 482

<210> 9303

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9303

cagttgtaaa aaattgacat cattattcta aatgttatgt ggaatcacag gaagaaacat 60  
cattgcaatc attattcaaa gtaatattaa agataacata aganatgttt ggtcttaaatt 120  
gtcaatttga atgtatagtg tctacaataa tagatcaaag agaaagtaag tatatctgta 180  
ataaaaacaa gaaaaaatga gttgcaaata ctgtattcta caatgaaaga anaatgcaga 240  
ttaaggataa aacagtcctta ccaactagge cacctttaag gatcattttt cagggtagct 300  
aaaaggagta acaataaagc tctacacata taactaaaat gtttgcaatt aatctantcc 360  
cagcactttt atttgtagag ttctcaaate aaaagtaaca aataattata cctcngggat 420  
tgtaggaat accaattatt ttacaactgc ccctacntgt ttctcctccc tgaccaagtg 480  
gcacaaatcc agcctgctgt gtttaataca anccctncct tncgtcaana actccttt 538

<210> 9304

<211> 480

<212> DNA

<213> Homo sapiens

<400> 9304

gtattttaata aaatggcaat ttgtaaattc tgggtgaatac tcnaaattgt agctaaaaac 60  
agctatctga atataggttt aaaacctcna agacacagag ctaagaaata tggaatacat 120  
tgtatattgc tttttcaata gagtagacat aaaattgatg acaaattgtt ccaaaccctc 180  
aataagaact caaaacatca tactatgccca agctgaatta cagaagggtg tctaagaaag 240

aanacagtgc atcagttatc tctagataaa gagccagtaa aatcaagttg catttgatgt 300  
 atacatctta ttgggagtag ttttcagaaa gcaatttccc taaaaacaga aaaagcattt 360  
 ttttttcta tttcagtctt taacantgtg gtcctccata aaaaaaatg actacttgaa 420  
 aataanaagt ttttctacc ttaaaacttt nttanggggg ttnaaatagg aaattgtccc 480

<210> 9305

<211> 513

<212> DNA

<213> Homo sapiens

<400> 9305

cgattcaatt catatcttat ttagtacatg gctgatgttt cctgtgaatt tgtgaacatc 60  
 agtgggaaaa atacatggca ataaagtaaa attataaaat acagtanaan attatgggtt 120  
 gaggtaatac caatttggat agatttttagc aagtaaaaaa tatacaaatg aagtatattt 180  
 atatacccaa gtcattaaac agccctttat ttcttgagct ataattttaa tgagggggaat 240  
 gtgaactaag acctataagc acatagctat gtatagtctt cattgtgggtt attacctttg 300  
 atggagactt gtttttcttt taagcctttt tctcccctgt ttgatccttg aagtccatgt 360  
 catctcttga tagtactgca gacagctggg tctgtgccaa atgctgtagt agatgtcatg 420  
 atcctttccc tctttatcat tccattcact tttggattca tgtnttcac aaatattatc 480  
 natatttaca gatggcncag atgaactccc tcc 513

<210> 9306

<211> 563

<212> DNA

<213> Homo sapiens

<400> 9306

aatgaaaaga aacatttatt tacactttgt acatatcgat tccaacaaac aataaaaggc 60  
 ctacacatca gtataatcat aatatatgag aacttccgat cttctcacac tttgcagtga 120

tctgatgctt tcactcctgg ttctgatatt tgatTTTTtg aacagccttc ttgaaaatga 180  
 cctacacatg aaaaagtaaa ttattggatc caggcaaaca ttacacgcag acaagaaaag 240  
 tgtaatttct ttgcagtaat ataggatttt ttgtgcagat tcatctaaaa gcctgtctaa 300  
 gtgactaaaa gtaaaaggaa ttctgcacaa gtgatatggg agaaagcagg tnaaaaacac 360  
 agccacaaca accctgatgc tctggttatg ttttcgcttt cggcttgact gacttatgaa 420  
 ttgcctgctg gatttgtgga tgtinctggat atggctatgt tacatccgat cagaatccca 480  
 ccacggcaca aacaancact gttcccatag gttactgccg tatgcccttt gancccaaaa 540  
 ggacttttaa tttttgaacn atc 563

<210> 9307

<211> 510

<212> DNA

<213> Homo sapiens

<400> 9307

aaatttgaga cggagcctcg ctgtcaccca ggctggagtg caatggcacg atctcggctc 60  
 actgcaacct ccgcctcctg ggttcaagtg attctcctgg ctcagcctct cgantagctg 120  
 ggattacggg tgcccaccac catgcccagc taattcttgt atttttagta aaaatggggg 180  
 ttcaccaggt tggccaggct ggtctcaaac tcctggcctc aaatgatcca cctgcctcag 240  
 cctcccaaag tgctgggatt ataggcatga nccacagcgc cagcccacct cacagattta 300  
 ctganattaa atgaaaaaca tcctataaat agtttgtccc aggcaccatc taagcacaaa 360  
 atacagtggg ggataaaaca aaaaacaaat ccctgccttc ctggaactga aattccaagg 420  
 cgttaaagtg gaaaaagcaa aatcaaaaaa ttagctntca attcgttttt aaaaccncac 480  
 cccantgggt gccaacatt ggcattttcc 510

<210> 9308

<211> 437

<212> DNA

<213> Homo sapiens

<400> 9308

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gagatggagt cttgctctgt tgcccaggct ggantgcagt ggcataatct tggtcactg   60
caacctctgc ctctgggtt caagaaattc tcctgcctca gcctcccagg tagctgggac  120
tataggcgcg caccaccaca cctgtctaatt ttttgtatit ttagtaaana tggggtttca  180
cgatgttggc caggctggtc tctaactcct gacctcgtga gctgcccgcc ttggcctccc  240
aaagtgtctgg gattacaggc gtgagccacc gcgcccggcc aacacctctt aagggtcaag  300
tntgtattta agacctgggg gtccatcaag aatgacaaat gctcccggct ctggggcggt  360
tcccggccaa tggaagaaaa accacttgtn aaaaaaacat gctcaactcn aacaggacct  420
gaacatnaa aaaaaat                                     437

```

<210> 9309

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9309

```

ggaacaanan attttaactt tttatggcaa aatttactgg tgtcaattgt attttaattg   60
aaaggtcaac accatgttgc tgtctctatt ccactgaaca aaaatgactt tgaaatanag  120
gaaaanaata gccagtttta actggcgana attttttaaa atcacatttt cacaacacta  180
caacatatgg anatgtinnac agttagtctt taacacanan tgctgtagta ttttatactg  240
tggtgcttgg ggaaatattc ctantgaata accggcagtc tgtgcaggaa ccancagtcc  300
acatttctag gtntaaatat ggaggaaaan cttctgctcc cgcctcaana aaagtggact  360
ccnaagggt acctgtctca ttttaaaacc tataccatga aaaccaattc ccanttccta  420
cactctgttc taccttcata attttncitt cacaattttc tttccgccag ccatccaggc  480
tcctgccant tattaacttc cncaaaataa tccatttnc cctccttccc cctnanaaag  540
gactnctttt aanttt                                     556

```

<210> 9310



<211> 513

<212> DNA

<213> Homo sapiens

<400> 9310

```

ctggctaatt ttgtttttta atgagaaaca tctgagttgt acatatcaca aacagcttca   60
agtttctgta ccaacccccccc gccccccacc cgcgcgtggc caaacagtta aaacccaaag  120
caaagcatca ctttggatgt gaaaaagtct tanaaaatta acttacaaaa acatccctat  180
caagtcggta gtttggcatt tactttacat tagtcaaaag ctccagctaa aatctaattt  240
ttttaaaaaa aaatcgaagt ttacattatt catacagatt gggcattggt aaaaaatatg  300
caciaataac cacatccatg caatataatt tctttaaaaa tttaaagcna tataaaagag  360
caganctagg tncatgaacag aacattttgg tgtataaccg gcagctcaaa attgccagct  420
gattggaatt aaactgaatc taacgtttta aatatgaatg atgtttcctt ccactaangg  480
tgcccatnat ttctgaaaca ttccagggtg aat                                     513

```

<210> 9311

<211> 458

<212> DNA

<213> Homo sapiens

<400> 9311

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acatttgcct gggtttttatt gaggtagtct ctcacgacaa aatcatgaat attacactga   60
aaggnttatt acattatctt tgtgtagtta ctctcctgta taaaccctgt gatgttccgg  120
ttttgatgcc tgggtaaaag ctttaagcatg cacgttacat ttgtatggtt tcatcaaaaa  180
agtttttgat gcctagttag actttggcct gcggaaaatc tctatcacat ataattatta  240
taaagtctct ttagtatgga ttctctgatg ttgatgaatg tttgaagtca taatggtttc  300
ccactcncag tgtttttggt tctctcaagc atgaattttt gcaatattgt acaatgtgag  360
aattgtgcca naaanaactt gccacattca ttacatttgt tagggttctc accancaaaa  420
aatcctttga aaaatcctgg tctcaaattt taccttaa                                     458

```

<210> 9312

<211> 464

<212> DNA

<213> Homo sapiens

<400> 9312

```

ggtaatgaca gggctcttgct gtgttgccca ggctggctctt gaattcctgg tctcaagggg 60
atccaaggaa tcttcccact tcggcctacc aaagtgtga natttcaggc gtgagctact 120
gcaccagcc agtcacttac aagtgtgtct gatttccaca tatttgtgag tttcccaact 180
tttcattggt ttctaacttc atcccatgtg gtcagagggc atgctttgca tgatttcagt 240
ctacttatat ttattaaggc ttgttttatg ctttaactta tgacctattt tggagatggt 300
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<210> 9313

<211> 524

<212> DNA

<213> Homo sapiens

<400> 9313

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tgaaaactgc tgancittaac ccgctgttga acaactgggt agttattagt tccctgggtg 300
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aaaaagaatg ctctgtgaat gtnnccctt gggatcaagg gttgaaatct taaaattttc 480  
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<210> 9314

<211> 485

<212> DNA

<213> Homo sapiens

<400> 9314

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ttaaactga gatatttcta gactgacata aaaagtaaag ttttgaattt ggctatatca 180  
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tgatagaaaa cacacagaaa cataagattc tcataaggnt aaggactatg aaatataagg 360  
aatcaataa aattagccaa aatgcctcat gaaaatgcaa atcatgtttt aaatgctaaa 420  
gagactcata ttaactgtat agaactttat attcccacnc nttatgaaan tgaaccacca 480  
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<210> 9315

<211> 469

<212> DNA

<213> Homo sapiens

<400> 9315

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ctgacatgga attaaaacta aaatgggtcaa ataccatgat aatagaaagc aaccagccaa 180  
catagctagg tcttctctta aatttgctga tcaacattag cagtagttac ctttaataata 240

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 caatttacac gtttaatatc ctgtggatac taaaagcttg tatattgtca gatttgcaca 360  
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<210> 9316

<211> 332

<212> DNA

<213> Homo sapiens

<400> 9316

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 tattttatgc cctcaaaaact gaaccttaag gtananacaa ttgctccccg ggccaaacac 180  
 agatccctcc aacccttcac tgtaccttan gaaagctggg gtaactaca gattcaacaa 240  
 aatctcaata agaaaatccc aaaaaccttc cccaatgccc tgtggtttgg cctgaacata 300  
 nggaaaatgg actgctgggt ggctacnaa ca 332

<210> 9317

<211> 495

<212> DNA

<213> Homo sapiens

<400> 9317

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 agagtcactt gtggagggga cggaagatga cctggctgat ctggccaggg atggtgtaga 180  
 agaccaggag gaggaagacg gtgagcagca ccagtagcag cagcaccagg gtgcgccagt 240  
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 tgtncnctt gccacccatn tctgtgaact ccangctcnc tggccggncc ttcctcctcc 480  
 tctgctttcg cttct 495

<210> 9318

<211> 336

<212> DNA

<213> Homo sapiens

<400> 9318

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 cgctgtttct caggatcttc ctcatcctg attcgtcctt tctctgctct tttttctcc 240  
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<210> 9319

<211> 437

<212> DNA

<213> Homo sapiens

<400> 9319

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 tctcactctg ttgccaggc tggantgcaa tggatcaatc tcggctcact ataacttctg 240  
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ctgccaccac atctggctaa tttttgtatt tttagtaaaa anaaggtttc atcaccttgg 360  
gcaagttggt cttgaacttc tgaactccag gtgatcctcc tgcctcance tcccaaattg 420  
ttgggattac cacttna 437

<210> 9320

<211> 477

<212> DNA

<213> Homo sapiens

<400> 9320

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caaaagttac agaanaacaca gctcaggctt gtaggtttac aggcaatana cactgtaatg 180  
acagtgtttt ttttttttgt cagtacttct atatgaatta cgtttcatct tttatttgta 240  
tatccattca catgctacat aatgttccact cttgtaaact cccaacacat tccagttggc 300  
tccattaact tcagggagtt ctgtagcacc tctgattgtt aataggatac acaactccca 360  
taggggaata ttatctcccc actgagccaa gctaactgtg agangtatca ccttcccaac 420  
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<210> 9321

<211> 429

<212> DNA

<213> Homo sapiens

<400> 9321

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acacctatca agattaacaa taactcctca atgtcagtc atatccattt aaactctttg 180  
taatggagga acatattcct ttaaataaa gctttagtaa tcacacaatt taagtgggaat 240

aaggtgaagg gaangagaga ggcagagtcc tgcccttcac cttgtccca gaagtttgaa 300  
aagtttgaaa gtcgctatit taccctgac agttcgaaag tcgctatitit acccctgacc 360  
ctccttttgc atcctgagaa aactgaagg tccananaaa aaacggtaaa tggtaaggt 420  
cataaanca 429

<210> 9322

<211> 455

<212> DNA

<213> Homo sapiens

<400> 9322

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tacctgtant cccagctact caggaggctg aggcaggaaan attgcttgag cacagacgtt 180  
caaggttaca gtaagctacg atggcaccat tgcgtccag cctgagcaac agagcaagat 240  
gttttctcag tgcctttctg cttctccagg aagttgtacc cgtcagcacc tgcagagggc 300  
tttgtgtcc aaaccctgac aggtaaaaaa attcctgtag aataaancca gaccagctgg 360  
ctttgaanan aaacccccag ttggggctgc gtttgcctcc tctccttttc tatgaagacc 420  
gaagctttgt cccttgatcg tcaaccgtga natgc 455

<210> 9323

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9323

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atatttatag atgtctaca tgactcataa aagtnaaatc nataaaggct attaatgtt 180

atttcaacct gaatttgaga aaccaatgaa nattaatcat ttatttggga tctagatcca 240  
 tataatctgaa aactgaagta taaagtttct catttccatt taccttgtca acaaacatat 300  
 cccaaacatt tcagcatctg taaaagggtga tctatttagc atctgtaata agtgatttat 360  
 agttatatat gcnaaataaa ggttgacaca gctggatcct anaaactcnn attttatnaa 420  
 tttaaaataa attaanTTTT tatgccnaa aacaaaaccg gatcttggat tttttttaan 480  
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<210> 9324

<211> 497

<212> DNA

<213> Homo sapiens

<400> 9324

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 tctgttgata ccacaaccaa tgcttttccc acganactat acatagatat actaaagaca 180  
 atactttttt tttttttgac attacagcac acttcctaaa tcatctgaaa tcctgaggca 240  
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 catcttcctt taattcctaa taaatattan atttttttgt nctaagattc aacagcagaa 360  
 tcctaattaa tctctaacac aacaagctat gaattataga atactatata ttcctactgc 420  
 tctccctgat cttattccnc ccanaattc taattgaatg tnaaaagggt cntntccnat 480  
 ccttggccac ttggcnt 497

<210> 9325

<211> 457

<212> DNA

<213> Homo sapiens

<400> 9325



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gaatgattaa nataaagaaa tagatcagta atctctctac ttcactaana tgagggaagg 180  
gaaaagtgt atgtacaggt caaaataatg ctgaaatgca naatgctttt canaantatg 240  
ccattagacc ttcaaatgtg ctgtaggtgc taatagtact tgtctaaca gaaaatattg 300  
agtcattgtc ttttgaagg tttaaactgt tttatgtccc aaacacatcc ctaccaggcg 360  
tantaagant aatccattaa tgttttcnnt gattaaaagt tgaaattata naatattgtg 420  
gaaatntntt tttgcattaa cttttatttt aatcccc 457

<210> 9326

<211> 378

<212> DNA

<213> Homo sapiens

<400> 9326

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gaaacttaca atcatggcag acagtgaana ngaacaaggc atcttcacaa ggtggcagga 120  
aggagaatga acacaggagg aactatcaaa cttataaaat catcagatct cgtgagaact 180  
atcacaagaa cagcatgggg gaaccgcccc caanatccaa ttacctccac ctgatctctc 240  
ccttgatgtg gggattatag ggattacaat tcnagatgat attttaggtg ggggcacagc 300  
taaaccntat cctacnagga atgactgaaa ctaaagatac taatttcctt tcccttggtt 360  
ggccaagctg tcntcttc 378

<210> 9327

<211> 451

<212> DNA

<213> Homo sapiens

<400> 9327

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 tggttcctaa gtctagttct ncctgtttga tatttgtgtt acttttaaag cgtcagcagt 180  
 ttgtcccagc tatgatgtgg taataaaaga ttcaaaagga ttttcttcac aagttctatg 240  
 attaaaagct taattaaaag caaatttctt ttttttttta attgtacttt aagttctggg 300  
 gtacatgtgc aaaacatgca ggttacatan gtatacacat gccatgggtg cttgctgcat 360  
 ccatcaaccc atgatctaca ttantttatt ctccaatgc catccctctc ctagccccc 420  
 accctganag gccnaatgtg tgatgttccc c 451

<210> 9328

<211> 265

<212> DNA

<213> Homo sapiens

<400> 9328

ataaaaccca catgaatcac tgtggcatcc agtttctatt caciaaagaa aagctccagt 60  
 ccatctttta atttttttga aaaattcctg acattacaga actaaactga aatgtnttaa 120  
 tattccactc ttacatttcc atgacaaaca gaaaaattca tgagccaaaa aaaaaaaacc 180  
 naaaaaaaaa aaaaaccagg ganaagctta taaaactaaa tatggatctc agcatcaaca 240  
 gctgaacana aaaaggaatt aaaac 265

<210> 9329

<211> 397

<212> DNA

<213> Homo sapiens

<400> 9329

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catttacata caaaattcac ttgaggcttt ctggttgaaa ctttcaatag ctttaaaaat 180  
 tatattctct aatttttaaa tcacttgcag ttttaagctca tttganaaac ttttttctcc 240  
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 aggcnгааac aatctgaatt ccatattccg gttcaca 397

<210> 9330

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9330

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 ntacaggcat gcgccaacac accccgttaa tttttagt tttagtaaana cgggggttct 180  
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 cactatctcc aaggaanaaa aaatctgaat tnccatttta atcccnct tccnccttaa 480  
 ttgggaaaaa atacnataac tattccttct ctnttaactt caaatcttct cccggttccc 540  
 tccaatcttc ccnnn 556

<210> 9331

<211> 336

<212> DNA

<213> Homo sapiens

<400> 9331

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 tcaaactgta tcttcttttg atggaattaa gatgtaactg tatagtttta agataaataa 180  
 atgggaagtt ggtccaacta agatgacagc agatatatta catgcaggat ttaatatattt 240  
 ctaattctct cttttaaaaa aaangatgct gttggattgg gaaaaaaaaa agtctaaaaa 300  
 gaaccanat tcaatatata aaaatgtccc ncaata 336

<210> 9332

<211> 446

<212> DNA

<213> Homo sapiens

<400> 9332

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 ctggcatcaa aagataaatt ttaaattcct gctttttcaa atttgcgtat gatttttgca 180  
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 aaactttagg aaaaaggatt cccttttttt aaaaaaaatc aataacctcaa aancagcttt 360  
 gggacaagaa aacccaaagt ggnctgcttt tcccaccag gancctatta tcccattctg 420  
 tgccactgaa ttaggaaact gactgt 446

<210> 9333

<211> 341

<212> DNA

<213> Homo sapiens

<400> 9333

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 aaatcttccc aggttgctat tggattttgc atgttcgaac ctccatcaga ngatagactt 240  
 aggcatatgg tttgcccngt gaattgaaaa atctccanan tttatgaatt gaanaatggg 300  
 atgaatacca tacacngagc accgaacaaa ccatcnaat c 341

<210> 9334

<211> 468

<212> DNA

<213> Homo sapiens

<400> 9334

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 cgccccggcca cacaaggcat tttggcatta acgtatcaag tcttaaaaat ctgtatatca 180  
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 cacataaaca tagtgggcca ctgcacattt atttaaaaaa aaagattata naaacttgga 360  
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<210> 9335

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9335

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tacagtatca atatagacta tcttgagaaa ataggtgtga aacagaactt ctctatcatt 180  
 ctacatatag aaaatcagaa ataatctcca agaatgctat tagtggttaat aattacatca 240  
 aagttgcagg gtacaaggcc aatattcaaa tgatttggtt gttaatacaa accaacagtg 300  
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<210> 9336

<211> 365

<212> DNA

<213> Homo sapiens

<400> 9336

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 caggaaagtt gcccnatagc ctgtcccatc tgagggtcct ttacatgatt agatactcaa 180  
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 aanggagctg ggagcagtcc ccctgcctcc attacttttt tagctttcac atatgttctt 300  
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 aagcc 365

<210> 9337

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9337

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tcaggggtgt caaggangac tctgtgaang caaanactaa actgggatgt gtgcgaaant 240  
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cttcntaana ataaattacc ccctngnaaa aaaaaaaccc ccaaaaattt ttgggttccc 540  
cnn 543

<210> 9338

<211> 527

<212> DNA

<213> Homo sapiens

<400> 9338

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gatcaagaaa gangacatta ctagcttcca gatgccctat catgtggctt cccagtttag 180  
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tatacttggg cagttaatat ttgatcaatt aatttcttcc ctcaagggtg gctcaaaagt 420  
tgaacatggg ctccctacac cgccctgatt tcaatctgaa atccncagga anaatcccc 480  
ttactctaata gacttgcttt gaatttcna aacccccaaa tttggat 527

<210> 9339

<211> 421

<212> DNA

<213> Homo sapiens

<400> 9339

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ctgaatattg taaattacat ttttcttcat aaaagggtaca tactattctg cacttttcca 180
ccaaaagcag tgggtgtgta tgcttggtat ataaaaaaaaa gttatatcct gtggcaggaa 240
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t 421
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<210> 9340

<211> 579

<212> DNA

<213> Homo sapiens

<400> 9340

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nacttccana aaggaaaggg angangggca aacactgtgc ctaccangtg ctgcctgccc 120
cgtcctgctt cctgcaggan gtgggaaggg anaaaaaacg gacattcgcg ccatcaagta 180
tctccccagt tttcanccac tatattcagt tgtggaggan gaaactgagg cacacgcac 240
ccccaggct tctacttgct agtccaaggt ttaacttact cctccccctc atctctaccc 300
ccagcaaaat gagctgtaag cagcctgggg agggctctcag gagcccatct ggtggcctgt 360
ggagcggggc aggccancca aggtcaaagg ctaagggttg ggggancaag aagggtgtgg 420
ctggaagaac actgctggcg gtggggggan tcgcactcaa taagggaccc anctgggggt 480
ccatactgat acattgggga caggcaaaac ctncctttca aanaggaaat taaggtnaaa 540
accnccntct ttgttagaag ggctcctcca ctatcngtn 579
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<210> 9341

<211> 407

<212> DNA

<213> Homo sapiens

<400> 9341

```

gtaagccaaa tcaagtcatt ttttaatggc acataagcta gcaagtatTT acattattaa 60
atggttggag aaaacagtat ttcattgacac atgaaaatta cacaaaactc aagttttcagt 120
ttgcagaaat aaagctctat tgaaacacag ccacctgcat tccttcatct agtaattacc 180
tggctgcttt cgtgctacaa cagctgagtt cagcagcagc aacagagact ataaaagccc 240
acaaagcttg aactattttac tgcattgggcc tttccagaaa aaaatttgat gacacctggt 300
atagggacag anaattagctt gacggttgcc acggtaaaag gtggggaang agctgaccac 360
agggaattta ctggagggtg atatanctgt taattgtggt ggttgta 407

```

<210> 9342

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9342

```

acaggcttat tactggcctc ctctcttca tctgaagant catcgagctc ccattcatca 60
tctatgtcca tttcaaatac tctcacatga cgaanatttg agcttaacac acaggacact 120
tttcgaaaac cattcccagc aacatactgt gctttcatac tttccagtaa tctccagtgc 180
ttctcgaaat gcatggtacg ggtgggaata gcactacact gtccatctag ccttgtagaa 240
taagtcccag tgaactgata ttctgcagaa tcttcactgt tatatactaa agacaaaaggc 300
agctggacca agagtctatc tcttccttca cgtcctacag tgtctttaan aactactggt 360
acagtttcat catcataaaa ctgtgcatct aaacaactgt agatgcttct tctgactttt 420
tctgttgtgg catatgttaa gctccaaatt taataacaat tantccatta ctncagatt 480
gaaaaaatat cn 492

```

<210> 9343

<211> 469

<212> DNA

<213> Homo sapiens

<400> 9343

```

ggttgtttcc tctaactttg tattttcaaa tactctatct tcaagctcac taattcctct   60
tctgcttgat caattctcct attaaaagac tctgatgaat tcttcagtat gccaaattcc  120
anaatttctg ctttattcat tttagttatt tcaatctcta ctaaatttgt ctgatanaat  180
tctgaattcc ttcttttgtg tatcttgatt tttctttgag tctcctcaaa acagctattt  240
tgaattctct gtctgaaagg tcacatatcc gtttctccan gattgggtccc tagtgcctta  300
tttagttcat ttggtgaggt catgctttcc tggatgggtca tgacacttgt aaatatttgt  360
ctgtgtttgg gcattgaaaa nttaggtatt cattgtantc ttctcagtct gggcttggtt  420
gtacccatcc tccttgggaa ggnttcata tattcaaaag gacttggga                469

```

<210> 9344

<211> 449

<212> DNA

<213> Homo sapiens

<400> 9344

```

atataaagaa aatctatgta agttgaggtt cagaaatgca tatatTTTTT acttacaaat   60
attcatctga ccaaaattca acataacctt tatggaacac ttaacaattg ttttgTTTTT  120
aaaataacat ttcattcaaa ctgtatataa ttcagtaaag ttttttatac agcaagcaat  180
gcttaaaccg tggaaaatct gtagaaaaga gattttcaca caaaataaga aaagaaaaat  240
ctgaggtatc cctcacacac acacatccat tcattctggc ccatgtacgt gcacatacac  300
acgcatgcct gtgtgttcac acagacatat tcattctcac tcacaaagtg gctgcagcat  360
angcaaaaat tgttaggtcc aaaggaaaat gattgattgt tctaataaag antccgagta  420

```

gctcagaaaa aaaaacaaaa acnaaaccc

449

<210> 9345

<211> 367

<212> DNA

<213> Homo sapiens

<400> 9345

gacagtctca ctctgttgcc canacaggan tgcagtgggtg caatcttggc ccactgcaac 60  
ctccacctcc tgggttcagg tgattctcct ccatcagcct cccaagtagc tgggattaca 120  
ggtgcccgcc atcactcctg gctaattttt ctattttagt aaanatgggt ttttgtcatg 180  
ttggccacgc tggtttcaaa cccttgacct caggtgattc tctggcctca gcctcccaaa 240  
gtccagggat tacaggtgtg agccaccaca cctggcttct ttaactctg caaaggcca 300  
ggtctggcat acagtttgaa atttgctgcc anantcccat tttgcaatcc cnaacttctg 360  
gtggaaa 367

<210> 9346

<211> 422

<212> DNA

<213> Homo sapiens

<400> 9346

atttctatgg tagaagcatt tatttcagat atagaaaaat aacactatit cnaaagtcng 60  
antnagtnaa cagaagtata ttttttccct gcatacccat cctcaaatgt cnacacacag 120  
tttccagcca ttcttacaag gaacaaatgc aaaattaaag tnataactgt caacagagga 180  
gctgtattaa agctacgtat caaccttgaa aatcagaaaa cacaaagtga tctagtgcag 240  
tgattctcaa ctttagtgig tatcagaatc acttggattg tggaaaaagc accttcagag 300  
agctgaagga aaatcatcag gtcnagcaag cccttggctc cagaataaat atccaagaga 360  
ctaaagatac gtgctttgtt cctcnnggaa gaaggnagga caaaatatnc taccatatnn 420

aa

422

<210> 9347

<211> 439

<212> DNA

<213> Homo sapiens

<400> 9347

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atccttctat agtcctgtca agtttaatgg aagtggggtt aacctgatta caacactaac   60
accagtatca ctgactgat atttacaaa atttgatatt ttcaataaat taaagtcaat  120
gcaacaccca tgcaagctag agtgctagct gtttggtgaa caaggacgtg acatcagaac  180
aagaagtcta taagtcccaa actttacaag tgtgatcatt ttcaaactgc atccattcct  240
cgcattgaan atgtgaaacc caaacccatn cctctttgtg tgtgggtttg tgatcttgcc  300
atttcatact gagcatctaa atttcgaaat acttcttcct gctgcttcan aatcttgta  360
ctttcttcat caactgaagc tacatccage ttcattctca ctcttaatac ccatcaattn  420
cctaaatttg anattgggg                                     439
    
```

<210> 9348

<211> 283

<212> DNA

<213> Homo sapiens

<400> 9348

```

ccatttatat cacacttta gtgcacttgg ggtagtggat ctaacatgtc tatttaacat   60
tgctggagtt cccttaataa accctgttaa ggtataaagt aaaacatgca aagcattttt  120
aattttacaa atccctataa aaacgancta aaagagagcc aaaatgactg gaggtaaaaa  180
tgtaacttaa acgantgata tgacattaac tataatttct gaaatctgga aaaatccctc  240
aaaattgggg taaaaacttc cagtgcana gtagattttg ana                               283
    
```

<210> 9349

<211> 366

<212> DNA

<213> Homo sapiens

<400> 9349

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aagctgaaaa gacgctcatg anaccaaggg ganggcaggt nccaaaggca agggctgggc 60
cctgancttc tggcttcctg gtgcctggta catantaggt gttgactgga ttgaggacaa 120
aggaaaatan aattttcnaa gggattaggg ctaanactcn aaaaaaaact gcccnagggtg 180
gattcttgac tgtgccaaan ctgaccgagg tctgtccaan acctaaggat gctacaaggt 240
gttcatattg ancatggggt gcccgagggtg gtctgtcaat cnaaaaaaaaa aggctgtnac 300
tggaagaaa attataantt tnggaaaata ccaaatingga acnggggaaa gggactgcc 360
tntccc 366

```

<210> 9350

<211> 535

<212> DNA

<213> Homo sapiens

<400> 9350

```

attnnngag atggagtctc actctgtcat ccangctgga ntgcagtgat gcgatctcgg 60
ctcactgcaa cctctgcctc ccgggttcaa gcaattctcc cgcctcaggc tcccaagtag 120
ctgggattac aggcatgcgc caccacgtcc gggtaatttt tgaatttttt agtatanacg 180
gggtttcacc atgttggcca ggctggtctc aaactcctga cctcaagcga tctgcctgcc 240
tcggccccac agantgctgg gactacaggc atgagccact gagcccggct tgcagtgtgc 300
tttagacaa cagaacaaac agatgatatg ggaaaagggc tcggattcac ctggcttcaa 360
atcctggtgc tgacacccat aactctgtng ccttggtcac ncctcttata ctctctgaaa 420
ctcagtctct tcttccaaac atngaagana aacctccctg aagggttgc tctnaagctt 480
aaataataaa taaaagtctt ggcncctgggg ctnantnta cttggtgccc caaca 535

```

<210> 9351

<211> 356

<212> DNA

<213> Homo sapiens

<400> 9351

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gacctggtgc caaaatgaaa gctttaatga gtgttactcc tagacagtca cgtctcagct   60
tctgccagcc tccactgtcc cagctctctt agctggccga caggggagct agttgctgag  120
gggtagggat ctggagtcta aagagcagag ccaggcaaaa ggaggtacag gaagcccccg  180
atgggggctg ggctcccgga gtgtggtgct ggggggtcat gggcttcagg ccggcccctc  240
ttcaggcatt cctagcaaag ccaccagggg ctccanggt gtgggggtcc catgggcaca  300
nggtgggtgc tncatgcttg cgcaagtcgc tggcactcaa naangccttg gganna      356
    
```

<210> 9352

<211> 563

<212> DNA

<213> Homo sapiens

<400> 9352

```

gggggntgat acagaattta ttgaattana tttttctatt tacaactgaa atnacatcta   60
catactatth tgctantcta catgggtnc aattttccaa caagcttaan anttaccatg  120
aatgggntca ttcatacaaa aacacactca cactaattct tttaaaacag tagtgcatac  180
attatactcc tcctataaag ccaactttga ttaaaaacca ctantttcaa agctcagtct  240
ctgattttga anatgaacca agatatacnc catatgatcc tacaatctat tttagtcatt  300
ttgtncagct gctatcttat tggactacag taaatatttt ttaaaaggac accaatgang  360
ggcaccatct ggtgttnacc ttaaccanaa agctggtttc ctctcctcc ccccaaaaac  420
tttgggcaan aattctccnc tgtnaaaant gaaaggactg gtgactttcc gcatcatcct  480
gtttcccttg gaagttacaa aaacagggcn tgttcccctt aatcnacccc ctactnaanc  540
    
```

ccantggtcc taaattnaan ttc

563

<210> 9353

<211> 372

<212> DNA

<213> Homo sapiens

<400> 9353

aagggaaagg atcttgctat gttgcccagg ctggtctcaa actcctcagc tcaagcaatc 60  
 tgcccacccc agcctctgaa agtgctggga ttacaggcat gagccaccat gtccagcaca 120  
 ctttaatatatt cactatgggc cctcaaaaagg aaatgtttgt ggggccacca aaagcaaatg 180  
 tctcttgaac ctantcacct ggggggacaa gtgtgggaaa gtgcacctgt gttcccatga 240  
 naccactca agaggagcag aaatcctgtt ttgctatttc ctttaattgct actaaggctg 300  
 ggattttttc atgtttattg gcccctctac atttttttct ttaaaaaaat tcnchnaaacn 360  
 tgtttatatt tg 372

<210> 9354

<211> 442

<212> DNA

<213> Homo sapiens

<400> 9354

gtaaanacag ggttttgcca tgttgcccac cctggtcttg aattcctggt ttcaagcgat 60  
 ccaccacat gggcctccca aagtgtggt attccanaag tgagccactg cacctgacct 120  
 gggcctattc ttgacctttc tttttgtgtc tcagtttctg tatctgtaaa atggaaataa 180  
 caatacctac ctcgtaaggt tgtgaanaaa attaaaatga gaatacctat aaagcactta 240  
 aataaaataa ggcctagtac atagtatata ctctataaat ggcatctgct atgattataa 300  
 ctattgttat taatatctaa tgttctctat tattctccaa taaaatcat ttgatgttat 360  
 tttggcccggt ttcctgcatg atctcttctt gcttattccc cccctaccag nanttcattc 420

ttnattttc acctcaacta ca

442

<210> 9355

<211> 613

<212> DNA

<213> Homo sapiens

<400> 9355

acaatgccta gcagaatgtc ttatatgtca ataaatattt gccttgtag aagtaatttg 60  
 tgctttgtta taagtaatta aaaacaagct tttatgcact ctttttaaat tcacttaagc 120  
 tacaccgtag taccctcaaa aaaggctttg aaattaanat tactgtccac atattggatt 180  
 agttattgat gaataagcaa atcagcccct ttcaaaagan atcagttagt cctattctac 240  
 gtggtttcta gtgaaatagt ccagcaaaat catataatac tgtgtcaaac tttttctgct 300  
 cttctttttt taaaaaccaa acaacagacc ttcatcttag ggaacagcag ttctacatct 360  
 ttaccccct cgggtgaggta aaagtgtcaa tanagaagtt actactatat tcccctccca 420  
 aatttttaga angagcagta aaaataaggt ttgatgaaa ttcccataaa atatttaact 480  
 cattattgtc tcatgtcana aacaaaaata aggccatttc ntgttataac atgaatataa 540  
 taacctcccc ttgttccaaa taaccaaag gtaagtcccc tctttcccc ttcttaagaa 600  
 gtttncntt ttt 613

<210> 9356

<211> 301

<212> DNA

<213> Homo sapiens

<400> 9356

gggaatgant tgtttttatt ttacagtga tcacctatca aactgttctg ctgtgttata 60  
 gtcccaaac tgganttcaa cagtcttaga aattcagtgg tctaagaact gcagttcttg 120  
 antccaacct cctgggaaaa gtgaagtata aaactctggc tccagctgct tgttccgta 180



cttggtgaca atgtcgggtga ttttctgttt ccggcggaca tggggggggac tgtangaatc 240  
actttccagt ctctttcttc tacaaatgtt aattacagtc tgcctcacca naaagccaan 300  
a 301

<210> 9357

<211> 578

<212> DNA

<213> Homo sapiens

<400> 9357

gagatggggt ctggcttcgt caccagact gggaatgcaa tgggancaat catagctcac 60  
tgcagantca aactcctggt cttaanana cttccttctc atcctcctga gtatctggga 120  
ctatgggtgc atgccacat atctaagttt taaaaattaa tttgtacta aagganggtc 180  
ttgctatgtt gctgaggccg atgttaatat tttataaaag aaaaacatga cacaacagtt 240  
caaactgggtg cttttttgca cctatcctgc actataaaaa taaaactta aacatagcag 300  
ttacatggca ttccatttcc ttttgacatc acaatacatt aaataggatc ttttcaaaaa 360  
gtaagacagt ctattttctt atttcgtaaa aataccacag gctggaattc taaacagatt 420  
tttttttttt ccttaaggga tctttattcc cncncncnc taaaaaagac ctgaaaacag 480  
gtcctcctta nccatcctac tttaaaattt cttcccaatt nttttngggg aaaccggaaa 540  
aaatccnaaa ccttggtcca tttttttaaa ntganggn 578

<210> 9358

<211> 504

<212> DNA

<213> Homo sapiens

<400> 9358

gcttttgttt tgananagga ntcttggtat gtccccangc tggaatgcaa tgggtgcgac 60  
tcggntcact gcaagctccg cctcccgggt tcatgccatt ctctgcctc agcctcccga 120

ntaactggga ttacaggcgc ccgccaccac gcccgntaa ctttttgtat ttttagtaaa 180  
aacgggggttt caccgtgtta gccangatg tctccatctc ctgacctcgt gatccgaatt 240  
aggcactaaa ttttaagcat aacatganca ctctccaggg tgagaancca tcaaaatcac 300  
gtttgcaagg ttgtctgcga acctccacgg gaaaaancaa ccaggccaag tacctgacat 360  
tacatgggtg acacctggct ccctgcagct gctgccaaagc aangctgtna aaaggctcctg 420  
ccccnctat aaagctgttg gttcctgcct gccacnccac tcttgggttg tgggttntna 480  
aattgggaaa aaaccccnaa atna 504

<210> 9359

<211> 312

<212> DNA

<213> Homo sapiens

<400> 9359

agtanagacg ggggtgtcact gtgttgcca gganggtctc gatctcctga ccttgtgatc 60  
tgcccacctc ggcctcccaa agtgctggga ttacaggcgt gaaccaccgc acccagccga 120  
atgtncctaa cactactgaa atgtgcactt anaaatgatt canatggtaa attttgttat 180  
acgtatttta ccataagttt aaaaaaagga aaaaaaaggg agcagggaan gccacatctt 240  
tccacttggt gtccaactag tgcctatgtg gggaggcact ggtgtgggcc annaaaatcc 300  
tgagggccct ca 312

<210> 9360

<211> 409

<212> DNA

<213> Homo sapiens

<400> 9360

aattcnatgg tataacaaaa tcagttccag gtttttttct gaacaaatga tcctttggtc 60  
tttcccgtgg catgtctcta aaacaactaa aacaaccctc tacgtctaata cagtcaccta 120

anatatcgag tggcaagtct ttcacatttg ctgcttataa ttcctgaatg gtccatattg 180  
 agtattttca tttctgggta agggaaaaag cattttgggc cattaattca cccgctcgct 240  
 cctggaggac gttaccaat tctgctatca caaagacgtg agtggcatca atgtcttgca 300  
 tgatgaactt cncaggcttc catttttggt cactttggga tggttttcct gtcgaactgc 360  
 gtggaaaagc angaagcaca ctgtccactg taggggtcct ggtccanca 409

<210> 9361

<211> 502

<212> DNA

<213> Homo sapiens

<400> 9361

gtaggccatc agaggtagaa ggtggtaaaa acagagttgc cactctcggt gtggccacgt 60  
 gagcacgtcc cacttaagta acagggtgtc cctcagggtca gcttgatgata aaacccaagt 120  
 caaacaaggc tgaatcctgg gtgttttatg tctaaggat ctgaaaagtg ttcacggcca 180  
 gccctgaccc tcaagacctc aaatgggtcat ctaagcagta acgtaaattg gtgtgtaaac 240  
 ttgctcctgg gccattgctg tggaagtggg actggcgaaa gtacagcctt gccatgcagg 300  
 aactaatgtc tttctaggca tttaaaataa ggggggaatgt gttgattact ccgacaggca 360  
 acccaactgc agtggctaaa tgcccaaggc tgacaaattc tgcatttat cactcccgtc 420  
 aagtggcatg tgaatactgt cnncccaaaa gaattgagaa acaacttgcn ttccaaaact 480  
 ctncatctcn ncaaaatctn ga 502

<210> 9362

<211> 448

<212> DNA

<213> Homo sapiens

<400> 9362

actgtttcna aagtattcna taccatcnaa gggaaaaaaa cattaaaata atctccataa 60

ttgtgaaatc tgacaggnac aggtcttgaa atggactgac aaanacttgc aggggggncca 120  
 cactgaccaa agttcaaaaa catttcatat ttccatttta agacctcttt aacgaaagtg 180  
 tctganacag actgtgatga caaaagaatg tttactggag aggaanatgg aaaatatttg 240  
 ctttcaccna atggaacttt gcaaccttgc ctgttggaaat tattcggaga ctgaggatga 300  
 anaacattgc acgaattctt cntttacca actggcttct ganctatgan gggaactggc 360  
 tgtggtncct tcnaaatcna ctgtatcccc tttagacttat tttttaaaaa accgtgaaag 420  
 tgctgaaaaa tttcccnana tttanaaa 448

<210> 9363

<211> 583

<212> DNA

<213> Homo sapiens

<400> 9363

canaanaggg tctcactctg tcacccagge tggantccag tggcacnate tcagctcacg 60  
 gtgactctgc ctcttggtt caagenatct tccagcctca gtctcccaag tagctgggac 120  
 acaggtgcat gccaccacac ccagctaatt tttgtatttt ttagaggana nggttttgcc 180  
 atgttgccca agctggtctc gaattcctga gctcaaagca atccactanc cttggcctcc 240  
 caaagtgctg ggtgtgagcc accttgccca gccacaaaag ggatttccca gttgcctcat 300  
 tgcggcagtt gccgggagct cccccaaaaa aaacaggga ctggggaact gtgggcatgg 360  
 gtaggantga aaccagtctg aatcacctt tggaatctgc atcgtgttcc ctactcaac 420  
 aaatattcct gttttccggt nggcaaaaaa naggtcccc ccggaaaaaa acaaaagaat 480  
 tttgcatttt ctgtcaatca acaaaacctg gggaantccc nccccnggaa gcaggaaaag 540  
 ccttaaaaac tncggcgagg naattccggg ttnaaacccn aag 583

<210> 9364

<211> 352

<212> DNA

<213> Homo sapiens

<400> 9364

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cttcagcagt gcgggggtcc ttaaagtgtg attcaagtcg aataaacttt tctacgtctt 60
tcaacctctt aggantccca tctatggatg gggaatggga tctcttaggt gtaacagtct 120
tagttatatt tgacattcca ttcanatgcg gttgtccctg ggcagggttg tgagggtgtg 180
tgattctagg aatgacattt cgtcctacta cggtaggaat ggtacacaca gtgggggggtg 240
atacagtttt tactgtaaan tcaacttttg cgccaatcac tggaatggaa agtccttggg 300
ctggtggtnc actcagtggc ttctcccaat tacacancag gtcagcact at 352
```

<210> 9365

<211> 410

<212> DNA

<213> Homo sapiens

<400> 9365

```
gacagaagta aaaatattta ttttatctta aaaatctggt cccgcaaaaa ggncaacact 60
tttttcagtt cacgggtcttg acctttcaaa gaanaaatct ttcaactgag aggtgagtta 120
ataaaaaggaa tgtcagaggt gctttcagat ttcttataaa ccagtaaacc aagcaaccct 180
ggacttctag ttactgagc tccttcttct agccattcac agttcctgaa ggagaaaaana 240
agttgtttgc agataaggca ctttagaaac caccaaagag aaaaccaag tctgccagga 300
gtgcactgt gaacatgtga gccgagaggg ccaccnccan acagantgcc aactcccaca 360
gtccatgac aacagcatcc accttctgc cccaacactg ttccgtctgg 410
```

<210> 9366

<211> 274

<212> DNA

<213> Homo sapiens

<400> 9366

aacaatcaca agtcattgct tttattcaga cgtaggggca aaacaacagg gattctacat 60  
 ctggctaatt ttttcaaagt ccttttgtcc aactatctat taaagaaaaa aagttgactt 120  
 acttctgagg tgagggatcc agtgcggcag ctaaaacttc ccctgccctc tgccacctgt 180  
 gtnatggcca catgcttgga tgttgaaaac agcaaagatt agcaccttcc attccctggg 240  
 ggccagcaaa nacttttctt ccnaatcaca tgca 274

<210> 9367

<211> 357

<212> DNA

<213> Homo sapiens

<400> 9367

gcatgaggnc aatactgtta ttgttcacat ttacagagc aagaaacaga ggcagcgagg 60  
 cattaaaaca cctgtctagg gtcacagggt gtncagcttt cananccagg aatcataacc 120  
 aggtctgtct tgttctaaag ctgtcctttt gtaactcctg cacattaaac aaataatcac 180  
 aactaatttc ttaaataatt acaaaaaanc caagtgtttt gaantataaa taciaaagggc 240  
 taccgaagca taaaatggga attggaaaaa tacctaccnc ncccaaaatt attgtnaaaa 300  
 ttaaaaanca ctenttggtg cactttgtnt atcaaaaaaa anctttaaaa atgttca 357

<210> 9368

<211> 369

<212> DNA

<213> Homo sapiens

<400> 9368

gaggttggtg ggaaaaattt aatcagctac agatatittta agtaccaaag gctgcctctg 60  
 gagggaaaag aaaactaccc ctctggttct ggttgacaga aatatgtntt atcagattcc 120  
 ctgtgaggct ttacatccca tgtttgctgg agaacagagg gattctctaa gagtgtagtg 180  
 atttcttcag atagttcctt catcttgcct tcaattatit cagangcctc acaggcagtc 240

cccattattc ccagtcattgt attcatttca gcttatttcc aactcagcta tccttggctc 300  
tgaaaagctg tcatcactgg catcactgta tctatcactg ggaaaanant ttgcaaccct 360  
gttgcaant 369

<210> 9369

<211> 297

<212> DNA

<213> Homo sapiens

<400> 9369

gacattttta aagccatttt aatgggaaat tacatcctac atacaggtgt tattccaaga 60  
agtttcattc cattggctan gacagaacgg acagctttga aaagatgaag tctggcccca 120  
gccacttcag gaggactatc ttttatttgt agtggtttgt gtgccacagc tgcaagatga 180  
cttaaagtta gaaggtaact gacgatatgc ctgggttgaa agtcctgana tgatttataa 240  
agcacctcgt cgaacctgan aagatgctga anaattgaaa cagactgtgg ctcttgt 297

<210> 9370

<211> 456

<212> DNA

<213> Homo sapiens

<400> 9370

ggagaaaaat tcttctttat ttaaaaatac cagtaatact gacagacttc aaaagcaatt 60  
cacgcttcca gaatacaaag tacttaatac atattttcaa acctgtttgc atttcaaaca 120  
aagttagcgt ttttgtaaata caaatttgat aaccgcgacta aaaatatttt ccagctttat 180  
tatttaagga gctgcacagc cttaaagtg gggaccagga ngcaggcaga ggcaganaga 240  
ctgaatgcac ccaggactgc gcagcagtct acagcaacat gtcccacaac tttggtgctg 300  
gaaacacaag ttatgcacaa gacagctgcc ctccngtgtc aggatcctgt gaaacagcat 360  
atcaaaagat cgcngcttc ttataattta cacactttcc nttagaatg gctttttgaa 420

aaaattcttt aaaaatgccn ttttaattta atttcc

456

<210> 9371

<211> 395

<212> DNA

<213> Homo sapiens

<400> 9371

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catgaccatt tctcttttag cacgttcttt gttctcctct tccagaagtt gtagacgtct 180  
atttagtttg attatctgtc gtcttagtga agctgcatct acaacagtca ggtcatctga 240  
cgttccttca atggttgtat ctatatttga aatgccatac ctgacgttgt catgatgagg 300  
attagaagtg gcggcagcag acccaccacg caacacaggt ctaaggcagg tttttgcggg 360  
agaaagcacn anacagaatc aggaaacaga naagt 395

<210> 9372

<211> 449

<212> DNA

<213> Homo sapiens

<400> 9372

aaaaaaaaa gtctcccatg ttggctaagg ggggtctcga antcctgggg tcaaantgat 60  
ccacttggcc ttggnntccc cgaaatggcg gggattaaaa acgtgagcca ctgtacccat 120  
gattctttaa gaccttcagc agcccatcat ttcaagatga tatggtctta tcccctgaac 180  
taggtatctg acctcaatca tagctgagtc ccagacttcc aatgaacctt acaccccacc 240  
actccccag tgatccttca tgttgatgca caatcaactca cacaccctcg catgagccca 300  
gcacttccca cctcaacca tgctttgatc aactgcagtc tgggtccact gtggccatgg 360  
agcttggtta gttacatgtn ttcccacagg ggctgccctg gcacccaac tcccaattta 420



atgggttctg ggatancaac tngtcctct

449

<210> 9373

<211> 450

<212> DNA

<213> Homo sapiens

<400> 9373

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 aaaaaacaaa ctatcctcat atatatatat acagtgtcaa cattttcaga gcacttacat 120  
 taggaaacat tgtttctctt caactgtatg acaatactgt atatgccaca ataaaattta 180  
 caaaaacaat cgcatcagca gtcataacaa acatcatgat tttacatttc aatacacaag 240  
 aaaaaaata ggcatcttcc cggcacttgg ctcccgctg acggcaacgt ctctccaca 300  
 ctttgagaga cctcagcttt taaaaccag cagcggctat ttcagaagtc atgtcctttc 360  
 cagatccaaa cttaaataat ganaaatttg ccatttcnaa ataactgaag aattttattcc 420  
 tggaatttgg gaaatttaac ccccccaan 450

<210> 9374

<211> 410

<212> DNA

<213> Homo sapiens

<400> 9374

gtaatatgta ttttaatgga gaccataaat ttttcaaaa acccgcttga attagaaaac 60  
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 agctccaaaa atgtctacat agctttccaa atctcgtatc agtcagtctc tccgtgtgtc 180  
 gtgggagctg cctgcgcttc cgtgaacggg aactgagaa atgcttcaat atgtgccacg 240  
 ccattccaga aaactccctg canaagcagc tcttcctgca gcactcaacc ttgtgttatt 300  
 ttcctggact tcttttatgt ggcagatatt tatgttttca tcatggttga anaanctgct 360

tggaacagg tnagctgcaa ntgcattgcta ctcttganc tgnccanga

410

<210> 9375

<211> 457

<212> DNA

<213> Homo sapiens

<400> 9375

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gacatagaac tttcttctag acaaagatta ggaaaaaatt agtacattca cgctttcaac 120  
agaaatacat tacatatitt ttcagttttg ttttacagtc atagacacaa tcatattgaa 180  
actacatatg gataaattgt aagttattaa gtaatgattt tcatttgtat tacatgatga 240  
gtttcacaac atgaggatta catatttcaa tatggcatat actatttttg aaccacataa 300  
agcaatatag tacaaaataa tgtaacagtt actgtaaagt cagtaatgcc acttggcaaa 360  
tacatcaaat atgccaccga aaaccagtcc aagcatgaga catgacatct ttcatttcta 420  
aactataagc cctttgaaag ganggacntt nggaccc 457

<210> 9376

<211> 560

<212> DNA

<213> Homo sapiens

<400> 9376

cccagancag gtgcgtttat ttttatatgc aaatatatca cccttcaatg catatacaat 60  
agttataagg tctgaaaact aagtctatca nananaattg caatcccttg actcatatgt 120  
gttcatecctt ccatgganag cctcattatt tcatacaata aacatgccag aaaaggattc 180  
tggggaaaaa acctgtatca gctcaaaagg anaggttttc ttaaactgtc tggggttact 240  
gaggatcaaac aanatgactg catctgtttt acaggaaaaa tcaaatccaa agtactaatc 300  
gtaacaagga ctaggctagt tctgatgttt actttcctac ctacagctac tctgtaatga 360

aacaaataat	attaacaacc	ccagagttaa	ctaagtttac	acatgccaaa	tatcacatct	420
tattcnttat	ctcccacaag	cnatacaaaa	tgттаactgg	gtatctnaat	taaaggcncc	480
aattcttaat	tntccanttt	cccagaatat	ttnaaaaaga	aaaaatccat	tcnccttaac	540
cttattttnc	tactcctaaa					560

&lt;210&gt; 9377

&lt;211&gt; 469

## <212> DNA

<213> Homo sapiens

<400> 9377

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ttattttggc	tttaagtgga	atcacttaca	tctanacatc	ctttgaagca	aaaccactta	120
gaaaccagta	ttttgtgcta	aggaaggga	gaaatactac	aaaatgttgc	aaaacagaac	180
aaaaagctta	aaggtttaag	aaatttaaag	gcacagatat	ttcacatcaa	ttcanatttt	240
atagtatgca	aacatgaaat	aaaccaccgt	gttacaacaa	atatgtgcta	gcgattgggt	300
agatttcaca	cttctctcca	aatgtnacac	tgtcacattg	catttcctct	ctanatgtat	360
actgatagca	ctgggaaaga	tgttcagatg	cagggacaat	cccnatgttt	accaaacttc	420
tgaaagatga	atatnecgta	caaacttagt	tcnnaatatg	aaatgaaaa		469

<210> 9378

&lt;211&gt; 584

## <212> DNA

<213> Homo sapiens

<400> 9378

gggtananatc aggtctcact atgttggtca gcctgatcgc aaactcctaa tctcaagtga 60  
tcctcccact ttggcctccc aaagtgctgg gattacaagt gtaagccatc atggcaggtg 120  
ttgttttttaa tgtgttaact tgctangcta ccagctgcca tttgtttaat caaacactaa 180

tctaggtgtt gctatgaagg tattttgtag atgtgattaa aatccataat ctgttgactt 240  
 taagtaatgg agattatcct gaataatgtg gatgggcctg attcaattag gtgaaaggtc 300  
 ttaaaagtag ggctgaagct tccctgagag caagaaattc cacttataga taactgcttc 360  
 agcccatgcc tgaatttccc tgcccttcct gacagcctgc ccccaaaatt tcagacttgc 420  
 ctagctagcc cctacaattg cataaactct ctctctatac ttcgtactgg gttctgcttc 480  
 tctaagttct gaaccttgan tgatatgcca gcttggttatt tatttgccaa aacaatcctt 540  
 ccaaaatcta attaanccct gtctattttt tcccatccgt ncct 584

<210> 9379

<211> 498

<212> DNA

<213> Homo sapiens

<400> 9379

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 caaccttcac ctccaggatg cacataattc tcgtgctcta ncttcctgag tancctggggc 120  
 tatangcaca tgccaccacg cctggataat ttttattttt atttttggta aaaacgggggt 180  
 ttcacatgt tggccaggct ggtctcaaac gtctgacctc aagtgttttg cccgcctcag 240  
 cctcccaaag tgctgggatt acaggcgtga gccactgtgc caggcctttt tttttttttt 300  
 tttttttttg angcagggtc tggctctgtt gcccaanatg gaatacagtg gcacaatctc 360  
 agctcactgc aacctctacc tccggggccc aaaccatcct cccacctcag cctcacaant 420  
 atctgggant acangcgcac aacatcacac ctggctaatt tttttgantt ttggtaaaaa 480  
 nagaattttc atcntntt 498

<210> 9380

<211> 357

<212> DNA

<213> Homo sapiens

<400> 9380

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tcttagggan gtcacagcaa caaggcgaaa caataattaa agtncaacag aaagtagtgc 120  
agttctcgct gtggaaagaa cgggccgcaa gcagctggcc cgggatgcct gcacccangt 180  
ctaagctgaa agacaanggg tctcgggtgtt cccncanctc taaaactgtg gctgggggct 240  
ggctcaagaa atcatcttca nggtgatgtg ggggatncan gtggaatgcg gtgangaaaa 300  
aaagaaggcg ctgggctccc ggcccctgtc canaattgac tcccnanaag aatccca 357

<210> 9381

<211> 436

<212> DNA

<213> Homo sapiens

<400> 9381

aatagtgatt tatttgtcat caaatgtaca acttattcta aatattttca ttttctgtgt 60  
tctaaataga aatattaagt tgcagtaaaa aganaaaaaa aggntattta gcattacaaa 120  
naatcatatt taaaggctgc ccaatgtnga ntctantgac ctgttcagga cacctgaaat 180  
ataattaaat gacaattatc aaggttttaa caatttataa ttctaaacca gangattata 240  
aagaagtgca aattgacitt tacattcaac tttagttaaa tgaaggcact cagtattctt 300  
cctgaataat acattccagt ttctcacatt ttatgctttc atctattcng aattatttcn 360  
tagttaaata atctactctt atnccactg ttttaacgaa ttcntaatnt ttggaaaggc 420  
ctntaaacct taaccn 436

<210> 9382

<211> 371

<212> DNA

<213> Homo sapiens

<400> 9382

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gacaaaattg taacatctac tacaatatat cttcaaaaga aatcattcac aaccacactc 120  
acatgacaag aagacctcac agactcnaaa taaataggaa aaactcatac ataaatactg 180  
tcccgttcca acactganac tctcagtcac gcagaaaaca aattgaggca ttgagtggag 240  
gcaaagggca cttctgcagg aactgaccct caaattaggg attctcaacc cgtcttccta 300  
ngatgagcaa tggatgattt gcttggaggc tccttgttca gaaatatacct ttctccctgt 360  
ccanggtnc a 371

<210> 9383

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9383

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ctgtcctgtg ggacccagga ccagagaggg agctgcagag gacagggtg gacagagggt 120  
agccctgggt cttcaggaac accagccacc cagccatgag agaggaggag gaaggaggca 180  
atgtgggtac caagagtcca gaaggactca ggcctcagcc ccagggtcga gatggagtcc 240  
cagctctcct atccaaaccc actccccgac ccatgggctc ttgggctggg agcatcgctg 300  
catttagtca agtttgagga gtctgaaaaa tattttccag aagataaagt cttgggtcat 360  
cgatgcccc a gcttcacagt ccgtgccctc attctcagcc cctcaccatc cgtgcgccac 420  
ctggggcccc gcagccgcct gcggctggac ntctccaggc ctggcatcct ccactgggtg 480  
attctgtccc tgnaagaant nngcn 505

<210> 9384

<211> 580

<212> DNA

<213> Homo sapiens

<400> 9384

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ccaaatgccca agcaatgata nactgggtaa agaaaatgtg gcacatacac accatggaat 120
actatgcagc cataaaaaag aatgagttca tgtcctttgc agggacatgg atgaagctgg 180
aaaccatcat tctcagcaaa ctaacacagg aacacaaaac caagcaccac atgtttctac 240
tcataagtgg gagttgaaca atganatcac atggacacag ggagggggaac atcacacact 300
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atgtgggact taaaacctaa atgacagggt gataagggtt ggcaaaccac catggcacat 420
atatacctaa ntaccaaacc tgcattgttct ggacatatc ccaaactta aattaaatta 480
tttaaaaaaa aaaaaactgg tttatnctat ccaaatttcc cnttcnttg gacncaaaat 540
cccccggtcc ttttttaaaa gggaattggt tttnaaaaan 580
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<210> 9385

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9385

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cctgaaatag ctttttatta aacggcaaag canaactgca acacaattta aatgtctgta 60
aattaggtca caaaagggat gcaaaatgtt tgcagtttga ctattatata ttcacacagc 120
taaagtcatt catcaactct tacaccaata cataanatta ttccatgatt aaaagcccaa 180
atctaataac ctttaagctac attagtggat ctcttttcat attataanat ttttagcaata 240
cttccaatat tgatttccct accaaatgga atctanaagc taaattttta aaaattgtta 300
aaggatgact aaaactcttc aaaccagta gcagggttta cagaaaattc tagaacaagt 360
gagataaaat actgagcaag ataataagta tacatgtata actttcccat tttattcact 420
attctaatac taatacacca ttacggaatt ttgcagaagt tgaccactg ggtacaaatc 480
acttaaanac caaactcttt gttactgttc tctccaaatt tgntaacata aggggtgtcna 540
cttaatcccc ttentatatn tttccnaaa atttcc 576
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<210> 9386

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9386

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taaagacaat aaacagctaa gctactgaca taaaatatac aataaattta tgagatataa 120
ggtacagatg agaaaaatct gaaataagtt ttttaacttca ttttagcctat taggaacatg 180
aagatgtctg gaattgatgc tggccttggg ctcaagtact ttttcccata tgtattcggt 240
ttatccttcc agaaagcata tcatattaga gtgtctaaga aatcagtga tcactaagtt 300
ttccatctta ccgaagtaca aaacattatt tcaaacttag gccttctgac agaatccaat 360
atctatitit atacttactt ttctttctac taagttcttt aataaaatta tgaatcagaa 420
agcaagtaca agacatgctt atttcccaca gaaatatcnt tgaagactta agaagaataa 480
atngccngtn cttctaaaaa atcccaaatt tggacatttg ggaacaatat aattgccata 540
ctaattatat cttttattaa aaaanaactt ttccagcttg gtttccaaac tcttttn 597
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<210> 9387

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9387

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agttagtga aatatatatt tgccaccaga attcactggg accccagagc cagcagatgt 60
ggttggaag atcctctgct ctgtcctctg gcctcctgct gcatctgggc catcagtttg 120
actggaggag ctggacgggc acatagtttt cctcagaggc accatcctca tctccttgg 180
gaggggaagc caggacaggg ttctcganag ttcgagggac acctgcccct gacgggtcct 240
cacacagcgt angcagcgtc tgctcccatg aagcccagtt cacctcctcc accctgaaaa 300
caccancgt catcggggct gccatctggc ttaatgccaa cggtcancat cacacctgcc 360
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cgctgcttct tcctgcacca ccaatagcca ttctccatct ccagnanaaa aatgctttct 420  
gcatttccaa atgctccact ntcattggcg aaactnttga cngtctccct catgaagggc 480  
aataaacntt ttnaacacc 499

<210> 9388

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9388

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gtatttgata agtgaacaaa tgagtgaatg gatgaatgat gagtgaatga atgaatgaat 120  
gaatgaatga agtcttcttt gacgtcccct gtccacagtg atcttctgan aacctctgca 180  
gcatttcctt tgtgtagcct cctttgggtcc ttagcaacaa cgttggtanct attagttggt 240  
tgaatgtgta ctgagcttaa gttctcgact gcagggtgaag caatttgcca gtctaaaacc 300  
aggtggggan acattgcttg ggaatcanat cgacctgggt ccaatccan agctaccacc 360  
tattacttgt ggcctcaggt aattatctct ctgtaaagct ccatttcctc atatgtcaaa 420  
tgaaagttaa taatantgcc tgctccacag ggttggttgt gaaaaataaa tgaaatcatn 480  
tntntgaaat gcctaccata nctttgncc ccaggtgctc anttaatacc 530

<210> 9389

<211> 545

<212> DNA

<213> Homo sapiens

<400> 9389

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gtgctaaatg aggaaacgaa ggcacaaaaa ggtgaaggct cacctaaagc cacacagctg 120  
gaagtggcag aagcanaatg ggaacccggg cagcctgggt cctggccctg ccattcacc 180

ccctgccatc taaaaaatgc tactggtggc ccacccgant ccactggggg gtgatgcctg 240  
 ctgctgaggg ttacatctg tgctctctgg aggtttccct tggctactgg aaggcaccct 300  
 gccctgnang taagintctg ggaaagttat tcaactcctct ctggccccct catccannaa 360  
 ccantaaccg gtggtgtggg cacactgtgg tactgtgggc tctgcctgna actctccgtg 420  
 gggccacctn aagctggact tcctctnaan ccacttcctt gccactgct ccttccccctc 480  
 ccctgcttcc ctnaatccct cctnaaacc ccattccaaa acctgctctn anaaacctna 540  
 actaa 545

<210> 9390

<211> 574

<212> DNA

<213> Homo sapiens

<400> 9390

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 aacatttcac agaaaaatac gangctgctc cttttcaggc ccctgctggg tggcggcctc 180  
 tgcaaacggc taaaaaagtg ggggtgtggg cacgtgcccc tcaactgtctt cacatgttgg 240  
 ggangtgggc tctggccccca ctgccccaca ntantggggc anaaagcaaa aantnaacgg 300  
 anctgaacgg ctctgatgac ttgcttcctg cccggcctcc agtcaccgc agtggatgcc 360  
 ccttcctgct tttgctcacc tcantgtccc cttctccacc tctgcttggg gacatggccc 420  
 ttgacatcat ggccttggat aaagtcccca aaaagcccca ttaanttten gggcnggaag 480  
 gcaaaaactaa attcccaatc cttgggaacc tgctctttta ccactggctc tgaaccacaca 540  
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<210> 9391

<211> 536

<212> DNA

<213> Homo sapiens

<400> 9391

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gaaaatgaaa tgattgaaag tctttatgaa tctcatacat acaatatgtg gctagctgaa 180
attgtctatc acgtagcatt tanatataaa aagcctcatg ctagtttggt aaatgcaaag 240
gctaccanac gaccatttag ctggagaata tacggaaggn tttcagacaa cgcacaggta 300
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ggtaaagcag atttagtctt catgcctgga ctgaactcca cagctgctgt gtttcaccaa 420
cagtaattta aacttttggt acaacaacca atgtcttttc tccttaanaa aaaaagaata 480
atttattncc ttggcaatta tatancntt tacnttttta aattgtgctt tnaenc 536
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<210> 9392

<211> 516

<212> DNA

<213> Homo sapiens

<400> 9392

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ctcactgcag ccctgaactc ctgggctcaa gcagtcctcc tgcctcagcc tcttgagtag 120
ctggaaccgc aggtatgtnc aggtatgtac cgccacattt ggtcattaaa aaaaaattgt 180
agagatgggg gtctcactat gttgcccagg ttggtcttga actctcagct tcaagcgacc 240
cttagcctga gcctcccaaa gtgcgangat tacagtcgtg agcccccag cctggctgcc 300
atttagtttc tgatgatcat tttcctgcct ttttttttgg gtgcaaaaaa aatggtttta 360
gtcctcagca tcttacctgc atcaggttca ccaaggggcc ccacccgatg gctccctgcc 420
tcaaancagt ggaacatcca tctctcccaa gaatggctng tancacctga aacncatgca 480
aatancctgg gaatttgaaa aaaaccttaa nccena 516
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<210> 9393

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9393

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gcaattaatc tagtcccagc acttttattt gtaaagttct caaatcaaaa gtaacaaata   60
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cttctctgac acaagtggna canatccagg cttgctgtgt ttaatacnat tcacttcctt  180
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tagatgtcga tgacnancat tacgttttat atgaggataa tgctgaaatt tctccttcaa  300
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agcattagct ttccacaggc gaatgttcat ttcattcagat ccacacataa tatacttgct  420
gtcagaagtc cattttacac agataacatg ttgcattctc tttgtatgat ataccccctg  480
cttccacttt tgtctacngg aaaaaatcna ataaaatttt cgaaacttgc cnaaacaac   540
ccctcccnnn ngggaaatta tccctcca                                     569

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<210> 9394

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9394

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gggtttactg taattcaatc ttttacaaaa aattacttgc aagttattga taacanaatt  180
tctcttttac tttcttaatt ctcttgaaaa ttaaaccaat gtttccactt tcatgagcta  240
aagttcaacc atggtcacct taggaaatac ccctgtttat ttgttaatca gaaatacaaa  300
tcgagtggca catacttcca tttcttctt aggccaaagg tttcagcttc atttatattt  360
acagaanacc ttcagtggtc cggtaagtct ttcatgtcac agctgangtt taatgatggc  420

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agtggaggaa agcanaagtg atgcaaagta agaccanccc agttgcctta tctgacatgg 480  
aatcttttcc tgtctgctgc accaacaat tttcctggc aggttgccnc cccaaaccga 540  
ttnaaccaaa gggtagcttc cctganaaac ccntttaagg aaaatn 586

<210> 9395

<211> 585

<212> DNA

<213> Homo sapiens

<400> 9395

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ctacaggcgc atgccaccat gcccggctaa cttttgtatt ttttagtaa aaatgggggtt 180  
ttgccatgtt agccaggctg gtttcaaagt cctgacctca ggtgatccat ccacctcagc 240  
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tttatggaaa canaatctgg ctctgttgcc cangctggaa tncantggca caatcttggc 360  
tcattgcaac ctccgccttc caggttaaag caattatcct acctcagcct cccaagtnc 420  
gggantacag gtgcacacca ccacatccgg ctaatttttt gtnttttaaat aaaaacgnat 480  
ttccccgtgt tgcengctg gtctccaact cctaaactca cccatccacc cccctggggc 540  
ccctcaaatt tttngattac aggttnaanc cccccccccc cccta 585

<210> 9396

<211> 379

<212> DNA

<213> Homo sapiens

<400> 9396

cttanaaaaa ttgactttat ttggttgga agtaccctca tgnaaataa agaacacctg 60  
tacagacctg gtttggggga gaactgccaa ngaaactgga ggggcagggc tgtggcccca 120

aaagttggaan gatttggggg gagagtttct tctttggcaa gggagaaggt ggcacaaagc 180  
 ccaggcanan gggtcagctc ggggtgagac catgactagc agtactactt cccaccctga 240  
 acanaatcca gggatgctct gtcctggaca cgtcaaaaac tggggttgan gtggccctcg 300  
 ggtcaaaggt caggaactan aatgctggcc anggtcanaa gtcangangt ccgangctgc 360  
 tctctgaagt cagggggca 379

<210> 9397

<211> 501

<212> DNA

<213> Homo sapiens

<400> 9397

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 ctaattgtcc aaagatacac aatactgaat ctgcatacgc agtttccttt atgaagtaca 180  
 gtgctcatgt tttaggcagt cttctaaaca tacaataca gaggaaatta aattactcnt 240  
 taaaaactgt gtcaaatgaa gggatatttta aatataagtt tgttgtttct ggtaatagca 300  
 catgccc aaa tgaaaaccaa aagatggaaa ggcagataca cttcttactt ggggtggacag 360  
 ttacaacatc aatcattttc tgcaatgacc attatatattt ccatttatcn tgaactactc 420  
 tgaacttact atganatggt cccaagtcca aaaaaaaaaa attttnggga caanatncct 480  
 ttttggccgg naggttacnc c 501

<210> 9398

<211> 594

<212> DNA

<213> Homo sapiens

<400> 9398

cagcaaacct tcagagggca aaaganaatt ttcccttggc ccttacagaa gctttttgcg 60

gncagtcttt aacttgccaa ttttctatca ctatttaata atatgagaga taacccaaac 120  
 ctctcatccg gcatttgtct gttgccatca tctaactc tagtggagga atctttacaa 180  
 taatggcaag gaaggagatg atggcacatg aaactctatc ctaccaaaaa ccacagatct 240  
 tcccttactt tcacccagac atataagaac aggaccaatt gtgaaaatca aaaggagat 300  
 tagagataga aaataggagg cgtggcaacc ccacagacct gtgaccttg ttgcagctcc 360  
 cttccttctt acaatcctca aagctcacag tttctcatct ctcccatttt agctccatgt 420  
 gtctcacaac agcagccact actcctgggc tgccaagccc tcattgcatt ttgggtccca 480  
 gtcattggtt cttgtctaaa atctttgctt ctcatttccc agttatataa ggtcttttcc 540  
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<210> 9399

<211> 571

<212> DNA

<213> Homo sapiens

<400> 9399

cacagtacac agcagttatt tatttaaata cttgaaaagg ctgatgatgg aaaaaatagg 60  
 tttatcatga nagtttatat tcattanatt tttttatca tttaaaaaat tactgcctct 120  
 aggttatcct agcctgatat anaacacttg gtgacacatg cagttactgt aatatactat 180  
 aacagacaca gccattatag aatgatttac acttgggatg aaattcaaca gtagtaaggg 240  
 tgactcttta tttaaactaa aaacattggt aatatacaaa tttttttttt atttcattga 300  
 aagggtata aaattcaaca tactgacaag gaagcaacat aatcacatan ataacgcctc 360  
 tgctaattgc ttttacctaa ctccccctta aagggtgagct gcacactcag ctaccaattt 420  
 tctaaactgt gcnatngctt caaggctggc ctaccacaac tgactgaaaa aaatttctntn 480  
 ttngtaanct gacactgact tntttttttt taaaaatgga aaaacaatgg ccaattnttc 540  
 cttatttctt ataaaaccn aaggatcttc c 571

<210> 9400

<211> 515

<212> DNA

<213> Homo sapiens

<400> 9400

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acatcccaaa caggtctttt tatttaacat aaggccaaag aagctatcag gcgttgctga   60
atactgtcca ctaactgtac aaaatattga ctgcatgcct cgcaaacc acc aaaatatccg  120
ctggaatgcc atanaaataa ataacttctg ctataaacac atgaaaacat atcaaactgt  180
tatctcttta aacatattgt aaataaaaaa attaccagta cttctacaca ataaatatta  240
agaaaccatt gacatagttg aaatgcactc atataaatta acaactttta ttacattagc  300
caaacagaca ttggttaaag aactgcatgt tagtatgcaa aacaaaacaa aacaaaacaa  360
aaaacaaagt naaaaaccac aaaatagaaa caaacaacaa acnacatcac cacagaacat  420
aaaaatttta aaataaaaca ggctccaaat aacctnggct tccanaatta tnttttcctt  480
ttaanaaaaa atttcncccc cntgntcaat gcccg                                     515

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<210> 9401

<211> 566

<212> DNA

<213> Homo sapiens

<400> 9401

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gctttattag gtcacacaaa acagaatgaa ttancagaaa aatgtatgtt ataaaacagc   60
atttactact tcaatttaat tttttttact aacaattgtg gacctttttg angacactta  120
tgtatgtttt taataaatta tgtacttatt agtacttaat gagcccttcc tgcctcaata  180
taaaattact aaacttggag aattacagat tttattgtag gccctgatgt tagtcacttt  240
ggagaagcta aaaatttggc caaaatgaat gatccaatga tcctttaagt tatctttata  300
tttaatatag tgtgatcctg gactacactg atttaaaaca tgctttttga naaatgtctt  360
antaataggg cagtaatctt cagtgtgttt caaacactac ttgcacaaa atccccttag  420
gttgtnnggt attgggtcccc aactaggata anaanacncc gcaaatttgc ttaacacaat  480
gctagccctg cccggccctg ccccaaaatn ncgaattatt aatctgatcc gaaataagcc  540

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cnaaaaaggc ctttccaaaa tttccn

566

<210> 9402

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9402

aagtgggtgt tgttttaagt cgtaagtttg gagtcatttg ttatacagaa atacattact 60  
gtagcatcat tacatatact tttctctgta acctccgttt tcctgaaaag gaaaaatggt 120  
cttcaagggt ctccagggtc cactgtagtc tggttcctga cnacttctcc aggttttcca 180  
ttaaacaggt aaagtcttta ttgtttatta atatgtctaa gtactccatg tctatgatcg 240  
tcctcacttt atcaaccctg tctgaagttt caactgcatt tccccctctc aattgggcca 300  
ccatctctta attttctact cttcaagggtc tagcataana atggcattta ttcctaaaac 360  
gtctgttctg tcaactctga atttattctt atggccaagt tcgttcgaaa acctccatgc 420  
cccgtgagaa tatttgtgtt tngttttgtt gttttnngct gttgttggtt tgtttggtt 480  
tgaaanggaa tctcactccg tatccaaact ggaatacatg gngcaatctc tgctcatggc 540  
aaccccaact ccangggcaa acaaaccenn gcctca 576

<210> 9403

<211> 514

<212> DNA

<213> Homo sapiens

<400> 9403

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ggcancaatn acagcctcag tgaantcatg gcaagtaaca tanccacca tgtcaaangt 120  
tcgaacctgt gggggaaaat catcatcatc catgtggcct gggctccatc ctaacaatcc 180  
ccatcaccac ccaacagtct gtcccctaag gaanccggcc caaggacaac ctaggctcta 240

cccancaagg tgaccatggt ccactgctta aangcacaag gtctcttccc tggtagactg 300  
 cactgaangg tatggggaat gtggtccttg caaggttgga aaaaataaag ggctctaact 360  
 ccctttaatc tgcaggtagac cgatgacana cttagatgaaa tcggttgtagg tgctgttacc 420  
 ccccatgttt ccaattcncc ncctgncaac tttagattacc tcctccncnc atcttcnaaa 480  
 attcttgaat taaaccccna aataaaaacc cccc 514

<210> 9404

<211> 364

<212> DNA

<213> Homo sapiens

<400> 9404

atcatatcat aatgtctggt gccattcctt gcaaccattt aatgtingtt ttaaataaat 60  
 aaatgaacat tgctcacaaa gataagtaac tgaaatgccg gcaggagacct tactgcatct 120  
 canaaagtga agtaaacttc atttccagct cccaattct atcaactgtg agaagctaata 180  
 aaactcctca tgantttctgg ccattccctan anacttacat cctcactgac tctctgcctt 240  
 cagcttttgt gcatgtgcaa gcaggttctt ttttttgtgc tttattaacc catgttagga 300  
 attgtggccn ctccactggt ttccacacac acacnncnaa aatctntgen cagtaccnt 360  
 nggt 364

<210> 9405

<211> 378

<212> DNA

<213> Homo sapiens

<400> 9405

ggaagcgaac atttatttac ttttttccc cacacaattc ctaacagttc aattaaaaat 60  
 gagaggtaaa gcactagggc tgaacaagtt aggaaaatta agcctgaaat agtctaaaga 120  
 taagacatag tctaaacata acagaattct tctaggcttc tatanatgct ctcactgtat 180

acacttaggc acttattcat ctttatctgc aagccccatt tctaccaacg gcatatgaac 240  
 tggatgctgt tcatcgatcat ataatgtcac tatctgttct ggtgctggag ccatggacac 300  
 ancataaant tnttttcctt gaaaacagtc tntentance cacagtgcct ccatgctcca 360  
 tttgggacaa natggtat 378

<210> 9406

<211> 462

<212> DNA

<213> Homo sapiens

<400> 9406

aaaagaaaa atgtttatta taggcaacaa caccaatggg aactggtatt tgtctacacc 60  
 aaggagtgct aatttttcat cttccaatgg cggcctcaac cttgaggcga atccactggc 120  
 gaaagatgcc tttctaggaa gcanagctcc ctgactgggc taagatagtt canattgatc 180  
 ttaggtcaat ggtaagacct atgtntttca tgaagtcttg gcttttcggc gctgggtcgc 240  
 ccaaagcana atggagacgg atagagtggg ggctcccaana atcccgaana acataancat 300  
 gagaacgaac cctggcgcat accttgtntc catggaaaac catcacacaa acacactgcc 360  
 aaaaanacctg gaccatccgg tncncaaaat ccattctcag gacacatttc ctgggtcccc 420  
 attntnttg cnaaggtcct tttgcccttn aaaaatttgg tt 462

<210> 9407

<211> 578

<212> DNA

<213> Homo sapiens

<400> 9407

cagaaagaaa gaagtcaaatt tttatttggt tgtanatgac atgaccttct gtaaagaaaa 60  
 tcacaaagag tcagccaaaa tgcaactgga actaacaac acattcagtt tatttgcaga 120  
 atagaataac agcaccaaaa attagttgaa tttcataca ttaacaataa ataattttaa 180

aagaaaatta aaaaccaatt ccatttgcta aagaacttaa agtaagaaat atttaggaat 240  
 aaacataaaa agtgaggttt gtaccttgaa atctataaac attgatcaaa atgattaaaa 300  
 acatgtataa atagatataa atcccatact gatttgaaaa atgaatatcg ctcaatgatt 360  
 atatactcaa ttgtgattta gattcggtac aatactcnta gaagtctcta tacttttggt 420  
 taaagaaaca aaaaacaggc caggcccagt ggntccctcc cgttatcccc accctttggg 480  
 anggggaatc nggtggatct taattccaaa anaaaaacct tcctggctaa cccgggtgaaa 540  
 cccntccctt ctaaaaaccc aaaatttccc nngtntgg 578

<210> 9408

<211> 552

<212> DNA

<213> Homo sapiens

<400> 9408

atattaactt tccaaagcat ccaaaacttt catgatctgc tgttttatgg ctttagttgc 60  
 atcccctgca ttiggaatca aatacctttc gattgccaaag atttctattc ctgaagcact 120  
 gctatttcca tacttgaagg taatgagttc aggatgtttt tttttggatg taattttaac 180  
 tacagaattc agcgcttgtc gagactgtat ataagccaat ctttccgtg aaacaatctc 240  
 ccttaaacag tacatatgtg ttgcagtaac caacagatga ctgggaaaca tntntccact 300  
 ttcttttact tctttacaag ggaaaatgat ntttgacatc tggtttgttt atccaantct 360  
 gaatgtttac aaccnctttt ctatcatcat ctgacattga aagaactgtc aattncanct 420  
 gtgtcgtatc ctcctcnacc ccaatgctga aaacaggctt tacnccacgg taagggtgnc 480  
 cactctgtca tggctgctcc catgccgatc cacnggaatt gaantttttn ctataaactg 540  
 anacttttnc cc 552

<210> 9409

<211> 513

<212> DNA

<213> Homo sapiens

<400> 9409

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tatagtcggt	aacattttta	tgggatagtt	atttttatca	aagactattc	catggggttg	120
aatactataa	aatttactca	aatacacaa	tgctcagcca	tagtttacta	cttatttaca	180
taaatagata	ttacacattt	ccatactcag	ctgaataaaa	ccttaaggtc	taggtataaa	240
ggtaaattgg	atggaatgta	aacatttctat	tacattaaat	agattcatta	aaatctgttc	300
ccagaagttt	tcaaaactga	caagaaagta	aagagagtgc	cttatgtcct	caatagcata	360
atcctggagt	cacacttcta	gagctatagg	atataataat	gaatggaaaa	aaccctaata	420
ttttaggaaa	aaaaaataat	nggctattta	naacctata	aaaacnttat	gtnaataagg	480
gaacncnang	gtgatggtta	taaaaccccc	ctc			513

<210> 9410

<211> 572

<212> DNA

<213> Homo sapiens

<400> 9410

attttgtcca	tattcatata	tttatagagc	tagtatgtca	aaaactttac	acagtgcacac	60
cattagcccc	tggcccaccc	ctctccttcc	cacttctgtg	ttcgaaccta	cttagacctc	120
gcacacaaag	gttgatcaaa	ggcagtggcc	acctcagact	antgcaatgc	cagtcctgca	180
gggganaagc	ctggcaaggt	gagggtgagt	ctccacagct	ccaagacagg	tcccagacct	240
tggcccaccc	ancgaggaca	aaggggcctc	angtctccaa	acttaactca	tgtnagaaca	300
actgcccacc	attgtccctg	ccatgccaac	ttatatangc	atgaccctgg	cccancaatg	360
aagcaggctg	aagggcatgg	cgggctcaag	ccnaaaact	gaaggtggca	agtgcggaat	420
aacnctggcg	ggcatgcttc	tcacaataca	actcgtcacc	acaaaaatt	gcncccatc	480
tccagttcan	ccacaateng	cacagttttt	caacccgggt	ggcgtaccgg	ccncctgnat	540
tccccaacct	gttcccanac	tggtattcnc	tc			572

<210> 9411

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9411

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aacttaaaaa gttatttatt aaacaagtta aacacaacta aaagtatatt tagaggtcca 60
agattcaagt atttttgtca aactttctaa tgataagggg aatgataaaa attgaacaga 120
tataaaaaat attcttaaac aaatattaaa gcacatggaa aattcagaaa taaaaacaca 180
ccaccatata aagaaatcaa aatatttcat atgtttttta atgcttatgg tatgagagcc 240
aaattgtcta tttccaggtt aataaacaat atataagctc acctttttaa aggtatcata 300
ctttgtgtca tatagaaata attttgaaa cagtatgtgt tgggtgtgta aattgtccac 360
attaagcnaa acatatttta catatgaata ttttcantta tacttactgg aaaacaaacc 420
aaaaaacttn taatttaaca tcctgaattg aaaataattt ggattgaaaa tccgccaaan 480
tccacatctt accnccnaat ttttttcaaa aanattntcc aantttttaa aaaaaattgc 540
tcccccatcc cnt 553
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<210> 9412

<211> 486

<212> DNA

<213> Homo sapiens

<400> 9412

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aanatgggaa gcgttgactg aaacaagaaa ttaagtcttt tcggacaact tgaatttcca 180
acttgggcat aattattaaa atgcttagta nataacttca ggattgtggc tgtggccatt 240
accaaatttg aaagaaaaaa gtgacttgaa atgaaagtgc attgcagttc cngtaacaaa 300
tagatgataa actttattta agtttaattt atcagaaact tacagaaaag ctggagttac 360
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tataaaaata ttttttttcc tgaatcaata ngttactgct tcactccttg angtatatatt 420  
ctnacaaccc anaatatattt ctacatanat acaccagccc tcnnaagttg aagaaaatta 480  
acaagg 486

<210> 9413

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9413

aggatcaaaa atttattaaa aaccaattat atcaacaggc atcaagtcta canattcagg 60  
ttacaccana ccatgaagta aattctgtcc ccatccacac catacttgcc aggtcttcta 120  
gactcctgag ccatctccct atatcctcat ccaaattccc aaattacagg cttaggtttt 180  
tggttttggtt ttcaatccaa tggaggtggg ggcagctatg tnttgatttt tggcaccacc 240  
ctgtggtcat acctaaatat tgcaccttct actcaatccc acaaaggga agaaacatgt 300  
tntntangg cccanccnac ttcaaatctc agctctactt cccagtaaaa ctgtgggcaa 360  
gcccattaac tggaagggcc gtgaattata accatgttaa aaatgtnttt tcccanaacc 420  
caaaaatggg aatgactttt taaaaataaa aaccttnaaa aaagtnttt ttccccctta 480  
atattgttgt cntacctttt nccatnaaaa ttinggaacc cccccaatt tcttaaaagg 540  
tggaagga acctccaacc ntccaaga aaccactcca attccctt 588

<210> 9414

<211> 549

<212> DNA

<213> Homo sapiens

<400> 9414

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ccaccacgcc tggataatTT ttgtatTTTT agtaaanatg gggtttCact atgttggcca 180  
 ggctggTcTT gaactcctga cctcaggtga tccacctgcc ttggcctccc aaagtgctgg 240  
 gacagtgtga gccactgctc ctggccaact ttttaaagtc ttctgtaagt ttctgattat 300  
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 attttattta atacttacca tatggatacc caattgtctc aaacatcatt tattgaaaaa 420  
 tctccatctt ttacaccgat ccacatatgt ttgtttccaa aaatggntaa gttcatgttc 480  
 tggccttccc ctaanttccc tcccatccna aaattanaac ccccnttctt taaaaaacia 540  
 tntnagttc 549

<210> 9415

<211> 464

<212> DNA

<213> Homo sapiens

<400> 9415

ccggtagaaa gggtttattt atgcgcaacg gttcacacia gccttcctga aattccactt 60  
 tacagtaaat aaagctgtgc gtttccccct cccatgcaca actgcgtatc aatctacaac 120  
 tgtcatttaa ctgtgaaaaa atagancgtc tccccctttg tcatcgttct ggtaacattt 180  
 ggagtagcat ctgacagaac ggagctgctc actcctggac cggttatittg gttaaaaccc 240  
 aaaatgttag gtcgaaanaa tcaatcgtea cccaatacaa ataaatattg cgttatgaaa 300  
 nanacgggca gantcccacg gtatcccttt ttaaagcggc atttcagca cagcagcgtg 360  
 gcgctcacag anaccancan ggcgagctc tgggatgcca catgggacac ggctgcaagt 420  
 anccgtangc accgtcccgc cgcaagctc ctccaccnaa cctt 464

<210> 9416

<211> 540

<212> DNA

<213> Homo sapiens



<400> 9416

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gagcatttgc aaaatgttct ctatttatat ttttaaaaat ctgatacatg taagtttttc 60
tggcanattc tttttgtatg ttacaaaaca aaacatcaaa agctcagagt aagataagaa 120
tccctttttc ttanaaaggc caagcanata cttcttgaca tcatgtcctt tatacaatgg 180
catattgttc atataaaagg tctcttatcc tataaaaatc ttgacaaagg cagccctcta 240
atccaatgcg tccagtttcc gttctgcgga ctgctacttg attgttgcaa acaagtacac 300
ctctacaaa ttcagcttga atccccctcc gtaaganaac ttgcttgaag tctgacagcc 360
ttggttcatt cataaaaact gactgatgtc caggaactca tgangtggca aggggtccaaa 420
gtangaatga tctcactttc tccacctgtt tccctttent ncacctccaa anaaactttc 480
catggccttt gggtgttgct ataacnctaa aatctgangg aacttcccct tgggtcccn 540
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<210> 9417

<211> 587

<212> DNA

<213> Homo sapiens

<400> 9417

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aatcatttta taccatcctt taaaagaagt ccaatggntg anaactctat aatgagacac 120
agtgggacag aaattatcat gactttcaat gatcttttct tccccctaac tttaatatcc 180
tttagttggg gagagaaaga agtccatttt catctgctgt atctaagatt ttacagatca 240
ctggagattc aaccccnaga atatattgac aggagtgagg ctctagcata tatacagtaa 300
cagcatgagg tgaatctgat tctttgcaat ttagttttac agtcacctgt cttggtttgt 360
cagttatata acaaatatct ccatttccat aaaaatgtga caccatcctg actgtctggg 420
taccatcgtc ttgaanatga taagctctag cagtattctc cttaacccat tccatatgct 480
cttcttggtt cctgttcccg acaaccacag aaggtttccc nctatccctg tccnnttggt 540
attgangttc atntttgccc nacnaaatc cttttccccc caccgac 587
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<210> 9418

<211> 433

<212> DNA

<213> Homo sapiens

<400> 9418

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aagaactcgg gttttataca atagaatgtt ttctagcaga tgcctcttgt tttaatatat 60
taaaattttg caaagccctt tgantactg ccttagtcta cccactgtcc ttttgttatg 120
aggtaaanga tctcatgaca ccatacacac aaacccatca ttgcctgtga atgcacgtng 180
ggncagaatt cccagttcc cgctcctctg anggttgata ctgctgggaa tgccaaccac 240
tccacaagca gaggggaagcc ccctcaggcc tgcagganga nccgcancag tgtgtccaat 300
tcaaaccagc agcaaagaac ctgacatttt cccatccatc tatgangaaa gccatctcac 360
anaacatgga catnngcaac ttgctctccc ncaccaaggg atgggaatct ctctaccta 420
tantctccc tgc 433
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<210> 9419

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9419

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gtttttcttt tnatttttat tttaaattct ggggtacatg tgcaggcttg ttacatgaat 60
atattgtgtg ctgctgaagt ttggacttct aacgaaccca tcacccaaat agggaacata 120
gtattcaata ggtagctttt taaccctgc cctcttctt ccttgcccc cttttggant 180
cctcagtgtt tatttctcca gtctttatgt ccaagtgcac acttatttta aacctagttt 240
ccanaccttg tggttgtccc atcanatggg tatgaangta ccatggaacc cataaggcat 300
ctgcacaggt ncctctgctc ggcccagctc ttcaaanttc ttggcatcca aaactaagan 360
aaaattgctt tcattctggt tgggagtgat caccacacaa agaataacc caccatcttc 420
ttcattggtt cctgggtgct ggaacaaaaa cangttctga agganaaaac cacttctctc 480
caaaccacat caancttgat naaaaaatcc cccctaaatg cccaaaaccc canccctaaa 540
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aaaaataaac nttttgnccc tgaatccatc ctntnaattg aagaaatcca t 591

<210> 9420

<211> 444

<212> DNA

<213> Homo sapiens

<400> 9420

gagatggagt ctcgctctgt ctcgcaggct ggagtgcagt ggcgcgatct cagctcattg 60  
 caacctccac gtgccagggt cagtgattct cctctttatt ttcttgaagg tgccaagctc 120  
 gtcctgtct cgggcatttt gttcgtctg ttctctcatt ccanaacctc ctcccttgc 180  
 tcctcttaca gccggtctct catcttccca ctttcaacgg aggtagcaca tcctcgcaag 240  
 agtttctcc gatgccccag gccaagggtat tctccatcac ctcatcctgc tcttggcctg 300  
 ggtcaccggt ggtcataaaa attatgcaaa aatgttcatt tgttcatgaa ctgcgtnttt 360  
 cttantcct ttgtggggan aatccagggt naatcncctc ccaccatgtt ggaacanaat 420  
 taaataaaaa aatattcnct ggaa 444

<210> 9421

<211> 433

<212> DNA

<213> Homo sapiens

<400> 9421

ccatatcatt gtcacagcac cggagagcac tgtacaaaat gtccaccagg aaaaccaaaa 60  
 tccttccttt gatcttcatt tagccaacct atcagtttct ggtataaaaa ctgcaccgca 120  
 ggattttttt gtacaagctt ggctatttca anaggttttg cttggacaat actctgtttt 180  
 tcatcaccaa gtagcathtt aaatactcgg cttgaanaaa aggagtcaag cagagtagaa 240  
 agaaacctta gatgttgctc tgactttcgt tcattgacat aattaatact tatactctgcg 300  
 agtttacaga ctaagtcttc caaaggtttt ttccttanag ganacaaaag gcctgaaaaa 360

attatgagtg anaaaaaggt tcanttgta attccccanc ctcaatcttc ccncctctg 420  
aanaaacat ttt 433

<210> 9422

<211> 459

<212> DNA

<213> Homo sapiens

<400> 9422

ccatttttct ttgcttattt tcttcatgtt tatctgagta catggaccag aacattcact 60  
gtattatcat gaataattca gcatcttaca agtcactctc caagcaggac anattaaggc 120  
agcccgggtg ggacataatc acatctatgg ctacaaggaa cacgcaacag aaaatcagat 180  
tccaaccaag caaaaggcng cttgtttttt tttttctttg aaacacagtc tcgctctgtc 240  
acccangctg gagtgtggta cgcgatttca gctcactgca acctccgcct cccangttca 300  
antgattctc cccctcacct cccaaatact gggaacacag gtgcncacca ccacacctgg 360  
ctaatttttt gtntttttan taaaaanagg gtttcccctt gttggccaag ctggtctcca 420  
aatattgaac ccnggntat ntgccccct nggcccccc 459

<210> 9423

<211> 599

<212> DNA

<213> Homo sapiens

<400> 9423

ccgtctaaca ttccctttat tgettacgtc catattccaa tgaatacaat aaactccttt 60  
ttaaaaaagt aagggnatg aaaagccntt tgtgttagtt ccatgttatt ttaaaattcc 120  
tattgggnta ataaaagcat ttgcactata gaaccagaga catctagaaa agcacatgat 180  
agattttttt gcaagcagaa tgcctgaaac attacattta cctcatggca caatgagaca 240  
gtcaccaa at ccaatgtctg cattagaacg atacagctac tattacagtt gcaaaacct 300

taatcagctt atccacatat gtacagctgg gtccccacgt gacaaaatct aaaggaagaa 360  
 cagcatctaa ctgcacctgt gctccattcc ctacacagata agaactgtga cattttggct 420  
 ctttccatgt tgtgctgctc ttccccaaaa gccagggtcn tncaatactg aaaaacatgg 480  
 acaggtctgt tcnttcaaaa cctgaatccn nccgcccgat ccgtgtctaa cgttcgaaaa 540  
 tttcntccac cncgtccccg angaaacccc cctgaataaa ttctccaaag ggaactgcc 599

<210> 9424

<211> 495

<212> DNA

<213> Homo sapiens

<400> 9424

gtagagacag agtctatgtt gaccaggctg gtctanaact cctgggcctc aagcaatcct 60  
 cctgccttgg tctccaaatg gagagtatat tattaaaccc naaagagtga aatggagagt 120  
 caggntaaac acagtgtaat tacaagccac actactatac cacaggcatc attactctgc 180  
 ttttcctaag ccctactttc gtaaaattgt gtatactaaa tatctttgtt tatctgacaa 240  
 agaacaggaa gaaagaattc atacattggc actaccatta attgcctaca gtttctttca 300  
 ctattttacc taccagatat taggatgtat gacacaaatg taggatgtct aacagaanaa 360  
 caatgcaata ttgcaacata cagttaagta ctactcnac gttatcaata agttcttgga 420  
 aattgcactt taagcccaag atngataacg aaacnntttt taccnnnggc tanttgataa 480  
 aacaagaatt taatt 495

<210> 9425

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9425

aatggctaga actgtcttaa tttctggaat aagttttttg tagtaaccaa aagtggcggc 60

aaagttacat cggaacaagg gattctttaa ggactgcact gcanangaaa gtacagangt 120  
 taggagtgtt ttacactgta tgactggaga cccagtaagg aaaaaataaa accatttcac 180  
 gtttataccc agatttaaga ttcctcagta aaccagttgt actacttttc cattcttata 240  
 tctcaacaca ttcctgaaat cctggcactc catcatactt tactagccca accagtctaa 300  
 ctcaaagatt cccccaactt gcgtattaac atttcaatgg ctttgttctc aactanaatg 360  
 ttcttccctt angctctatc gaagtctatg tttaaaggaa caattctaata gtccatcttc 420  
 ctccaaattt tctctcatca caagtacaaa aatagtctct cagggtaaat ttaaaaacct 480  
 gcatttacct cntcaagcac ataaaacctt cttgtgacct tttgaanaag cgcatttanc 540  
 ctttaaatga tcttgtcttg cccaaaaagn acccccccta a 581

<210> 9426

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9426

gaaatggaat ctggntctgt ctcttgctct gtctcccang ctggantaca ntggcgcgaa 60  
 ctgggntcac tgcaagctcc ncctcccggg gtcattgcat tctcctgcct caacctcccn 120  
 aataactggg aatacaggtg cctgccacca tgcctgggct aatttcttgt attttttttag 180  
 taaanactgg gtttcaccgt gtttagccagg atgctctcga tctcctgacc tcgtgatcca 240  
 cctgcctcag cctcccaaaa tgctgggatt acaggcatga gccactgcac ctggcccact 300  
 ccactttttc ttaatgggga cacttcctct gaacaacang gacaaatntg ggaatggcac 360  
 aananaatcc ccatactcct attagttctt atttgaatgg gcctggtgaa atggaaaaat 420  
 aatgggctct gttactaanc actgtnnac tttggacaag tccttaacct ctctaagccc 480  
 gttttcnccn ctgttaaatg gantcatccc tgnccccctc tcataaccct 530

<210> 9427

<211> 547

<212> DNA

<213> Homo sapiens

<400> 9427

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gaaaaaataa aatttactgt ttatttcttt gttacacaaa gggggtccaa nanatcttan   60
tccatctcct atgtcctttt ggcataatt acancacaat aatggcaagc tagattanga  120
ntctagctca ggggtcaagtt tttccacttt aatgactatc tctgggagct aaagcggcag  180
caccagcttg ttggttctct gcctctgact cgcacaacac ttcttcctt tatttttaca  240
ggcttattac tggcctcctc ctcttcatct gaanactcat cgagctccca ttcattcatct  300
atgtccattt caaatactct cacatgacga anatttgagc ttaactaaaa aagaaaagcc  360
ataaaagcat ttttaaatta atggcttata ntatatnaag aattanaaat cagaagtctg  420
aatcnaagaa tggttttata ggaaagttat attccntcn attacaaca aaatcnataa  480
attccccct cnttttgttt taaaaaatc ccntttacca cngttggcat ttcctganaa  540
ttaaate                                           547

```

<210> 9428

<211> 416

<212> DNA

<213> Homo sapiens

<400> 9428

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acaattgtaa aaaaattttt tataacaagg atggactgat tttcatattt ccaaateana   60
ntcaactgta catttacaca naattgtctt tgcataagc ccaagangga acagcataaa  120
aatgagtgtt tctgtagccc ctttattttt gctgatcaac agtttggtan aaaancagct  180
gcaggatatgt tacctaaggt ctganacagt anaanaatca gangtgtcat gaattcncct  240
gtaaacaacc ttatgcctga acatcagcta attctggagg aantggagtc ttaggatgct  300
tgctctcaaa ntgctgcttg aaagtcttaa ggtctggcat ttgtgtccta canacagtgc  360
aggtatatat taaggcagct ttggcagcac cnntnggtca ngtcntgtt tcccn      416

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<210> 9429

<211> 587

<212> DNA

<213> Homo sapiens

<400> 9429

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gattgcactg ttatatctgt tttattggta gtctgaagtc tgtgaggctt tccatttgaa 60
accctatatt tcaggggctt atgancaggc agttgaaan aacttaacca gcaaaaactt 120
ggcattcatg atcttggttc agtataaggt acttgcttta acaaatttta agtagtcagg 180
tcttttttaa agttgtaagg agcacaaga ggaataaagg aatttcttg gttaaacaga 240
tagggaatat tttccagcc aacttatccc aattggattt atatagcaa ctttcttctt 300
ccagaaattt ttttaagtat tncattccta tgttccagtt gccacaanat cttgcctcaa 360
gattttcctt ttcctttgct gtagtttata ncaaataccc tctgcctctg ctctttttct 420
tcctatttat gctttttaaa ttcttcntaa tgtaatatat ttacactaaa aatgggtggt 480
ngntttcctt tggctttttt ccccccnccta cagtaccatt tgaaatttac ctattggtga 540
aaaacatatt actttgaaaa annttttttaa ttaccttgat tgcttna 587

```

<210> 9430

<211> 384

<212> DNA

<213> Homo sapiens

<400> 9430

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gtctagaaac aaagaacagg ctttatTTTT gttattttga atacaggat tgtattgtag 60
acatctgtta gtctcataat tcagtatggc caacacacag aaattaaaag tnnaaacaaa 120
atgagggcnc acttgctcct gtccttggct tggccccctc aacctccaaa anaactgtcc 180
tccccattgt catatccttt ccttgctacg aaagacaaaa caaatgatg cccccaagaa 240
aagtcccaga ggctctctcc cagcagtcag tgggatgaag caagacactg ttaccttggg 300
tnggatggag aaaccaccag gtcctncca canaagccac agtgggatgg anaaccctg 360
gtccatacca ccgaaggcac ntnt 384

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<210> 9431

<211> 470

<212> DNA

<213> Homo sapiens

<400> 9431

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atgttcaaaa tagtttttaa tcataagctt tatatacaaa ttgctgtaca gtcactcttaa   60
taaagtgaag tagtgagtga aaagtacaaa acacaaagcc cccacgttcc ccttggtgaa   120
gtatcaaagg atcactcaca gccagaagc cccaaattag tgacaaggta agtggacaag   180
tctgtgaaac aggctaaggc aagtgtgtga aactggctat taaaggcgaa caggctccac   240
tgcagaccan aagcctgagt tcctactgcc caaactgggt ctgtggaaga attaaatgaa   300
atgaatattg atgggccaga accttctagt agacctgcga actcataaaa atggtatata   360
ttatgctaaa aatagtttag cagtagtgta nctcagtctc tccnccccc nattaagttt   420
tgacaatacn ccaattccta aacatnaanc tgtttttaaac nttaattaac           470
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<210> 9432

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9432

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aaaatcttta tcatgagtaa tctcatcatt cttatatanat tccgatcctg atgtggttgc   60
tacaattaaa caanattttt ctcttaaccg cttcactgtg tcaaacatct gaagtatcca   120
cgttatcatg tccttctggc cttctaactg gggaattcct ttgagttttt ccaaagcat   180
ttgtatattc atggctgaac ttcccaatct tgaagcctta tgataaaagt caaatgttac   240
ttcttcttca ggagcttttt gaagctgttg cttctcttct agtaaacca atgccagaat   300
atgaaaagcc atttgagca tcccttcggt ccacaagtta gaatctgtgt ctattgcccg   360
ctcaaatacg gtcctgagaa tgtacatcat gatatcacag ttganaaagt taatcacttt   420
```

gctgaaagca gggcagaatt caggaagtgg tggggggggg aaatgctcca ccttgttttc 480  
 tggttttcnc ccttcctccg cntanntttc accctgctaa gctgggtttt ggaattatna 540  
 aaaaattntt ttggaattct tccngaacc cccttt 576

<210> 9433

<211> 592

<212> DNA

<213> Homo sapiens

<400> 9433

aaaaaaataa tttcaacttt tatttttagat tctaagggtta catgtgcaga ntgcaggttg 60  
 ttacatgggt atatttgttg atactgaggt ttgtggtatg aatgatecca tcatccaggt 120  
 tgtgagcata gtaccaata catagtcttt cagcccttgc cctccccgt cccctcgtc 180  
 cccccgccgc agtcctcagt gtctatcgtt cccatcttta tgccttctg taccacagc 240  
 accattcttt ttgaagcctg atttacttta tatcaattga acttcagcag ccacactgca 300  
 gcctatggct gtgtggtatg aggggaaaat cacactgatt gattacatgc gattccagtt 360  
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 ccaacatatg ctggtattca tgtctaact nggttagatc aactactact gtctcccttt 480  
 attccgcttt ataaattacc gcatccgttc tgaaccaaata ctaatgtttt cacccttata 540  
 cacccttaa aaaagcaagg ttggtgtcnt aaaccaaccc tgggttccca tt 592

<210> 9434

<211> 438

<212> DNA

<213> Homo sapiens

<400> 9434

ggctgagtag ctgattgcag gttataagaa aagttctttg atcttccact gttctcaagg 60  
 agatgtatac actgtaggtt gctcactgag ttgagacgca gcacagaana ngcttttaca 120

gatcttgtag gatgatgtat tttcccttcg tgagaacaac catagatttg ctttaagcact 180  
 gagtgcttgg tggactttgt gcctgaggtg cccttggatg gactcttggg ggccttgctt 240  
 actgcagtgg tttgggggaa ttttagttcc agttccttcc tccaaacctg gaggagcaat 300  
 gctgtaaact cttgcctcca tctgtccaca tctccagctc caagctgctt catatgccna 360  
 aggtgggaca ggtgcttcct ganctggtan ctccccagg cncnctggga atnactgctg 420  
 ctgccttggt cctttngg 438

<210> 9435

<211> 350

<212> DNA

<213> Homo sapiens

<400> 9435

gtttttgctt tcccanaat ataacatgga gtgtttttcc agaaatctta aaatagaggg 60  
 attaggcttt ttgtttgtaa gtaagttttt ggaaaaaaat tatattctac cctagctcct 120  
 aactatccca aaataaaccc aaaggctttt gctttcacgg ttaaaaaana ttatacgtt 180  
 ttcttcaaat gtcaaaaatg aaanggtccc tcnggacagc aatatcccc ctagttcaac 240  
 acccaccttt gggaaggga aaaaagggtg ggganangca actacaactg acccaaatcc 300  
 ccanncccta nggtgctttg tatantaaaa atctcnattc aaatacaaca 350

<210> 9436

<211> 485

<212> DNA

<213> Homo sapiens

<400> 9436

atgtttggaa aaaagggtcag gggacacctt gcctctagt gacaagggcc ctgancttta 60  
 cacagccctc catatttatt aggcaaaaana aatantgaga aggggtgtgg aaaaaaaagt 120  
 cagctgctcg gtccanaata ngcttgcaan actgcattcc tcnaacaata ggctctaaat 180

gtcccagtaa ataacctcaa nganccgggg ccagggaacg atggccctca ncaaaccttc 240  
 tgggcaggca cagaancgag ttgcccaca ttctgtattc atgataaaca gtttgctgtt 300  
 tgatcatgta ncttccactg gaatgctgan ttggtcacca tccctttggc ctttttggct 360  
 cccaacattt cccctttctt gtttatgtat taaatnaaaa aatnagggc caagctgggt 420  
 nctttcattc tcccattggc agtccatccg attttncna ctatgaacgn aaaaacgaaa 480  
 actaa 485

<210> 9437

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9437

gcagctcttc agccaaaatg acactcatan tgcactggaa aaagtaaggc actccacatt 60  
 ccgtctccg tcaaacacac catacagggc ttgcgggttg tcacanaant tattcacga 120  
 cagggtctgc acacacaact tgttttttac cccgaagct tcagtgtaac catgactcca 180  
 tacagctggg gctccggaag cgtctcctgt anaaggctga tcaatcttga aacagcggat 240  
 attattcagt anttccaggg ttttgtgatc aaagacaaag cgcggtttc cantcaggtc 300  
 tagctcctgc agtttgggaa gcangtttc tggtaatgtn acttcactta gctcattaca 360  
 gctcaggctc acacacttga tctctgggaa ctgcataact tccggaaaaa ctccatgcat 420  
 tggantnanc aatcacggtg ttcattcccc gcaatcataa tcttgtttgg ganagctttc 480  
 acctatnccc ctnaaataat tcttccattt ccccntttc cccattttac tttgctgnaa 540  
 aaccncaa at tcggttttag gccctttnaa gatntccaat tgggggtttc ccttnan 597

<210> 9438

<211> 431

<212> DNA

<213> Homo sapiens

<400> 9438

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aattaagtag acttttattg ctcaatcaac ttcagtaaca tctccaaaaa aatagttttc 60
atctaacaat tatgaaacaa atttgaaagg caggatgatt cacaatatag acccagtaga 120
ggcttatact tcatataaat gaaaaatata agttctacaa tttaaattgtt tactttggat 180
tttattatag aagaaaatat cattgtaatt ataaaagcca taaaattgg aactgtattg 240
tgaaattaca tcaaggtatc agattttata taaatgaaca ataaaattca atttttat 300
atttaaactg anttaaactg tggaagacaa tctcccccac gggaagaaa aaaaaaaaaa 360
acctgaata atnaagccn aaagcccn cncnaaaact aatcngtgtg cnaaaatctg 420
attaaaaaa c 431
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<210> 9439

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9439

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ctgattcaca cgaatactaa cgtttaatcc tgttttcaaa gtccaagatt gaaaacttgc 60
aattaaacac tgagcaagcc acatgtttta gtaatatctt ttaaaaagtc ttaaagaaaa 120
aagtatgata caggacctaa gttttcagt gcatatatac tattaacaca ttcttgaaat 180
ctggtaggtc acatcagtc tgaattaact tttaataata ataataata aaaaactaac 240
tgagctttat actttttcta tgccactata gctttctttc acctcatttt ttaaattgtc 300
atcttcactt tatgccgttc tcagtattct tccaaaaatc ttcgaacagt agtcctctgt 360
ctgatctgag gtcttatcag atcagtttta attggactga gtgtcccttc agatttaatg 420
tctcactggt cccattgaac tcattcttag taccactttc cttnattca atgttttgtgt 480
ctccctctgc ttcccgact accggactca cctacttttt tatcacaat ccnctttcc 540
tccccggna ttccacctgg tcccgccna ntggcccggt gctaaa 586
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<210> 9440

<211> 423

<212> DNA

<213> Homo sapiens

<400> 9440

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ctctaaactt ctcttctcac ttcatttcat tcatttgatc ttcaatcact gatacccttt 60
cttccattta atcaaatcag ctactgaagc ttgtgcatgc atcacgtant tcttgtgcca 120
tggttttcag ctccatcagg tcatttatgg acttatctat gctgtttatt ctcgtaggcc 180
attgtctac tcttttctaa aggtttttaa gcttctttgt gatgggttca aacatcctcc 240
tttagctggg anaantttgt tattaccgat tgtctgaagc cgccttctct cgactcgtca 300
aagtcattct ccatacagct ttgttccgct gctggcaang aactcatggt gctgcctaata 360
ccttcctctg gaancctcat ctcanaaggg naccncnccct attaaatttc natncccccc 420
cct 423

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<210> 9441

<211> 567

<212> DNA

<213> Homo sapiens

<400> 9441

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aggttttcaa atttattagc agaaatatac agtctttaca tttcttccac atttatttat 60
ttatttattt tttagagacag agtttcgctc ttgttgccca ggctggactg caataacacg 120
atctcggtc actgcaacct ctgcctcctg ggttcaagcg antctcctgc ctcagcctcc 180
cgttgggatt acaggcaccc accacctcac ccagctaatt tttgtattt ttagtaaaaa 240
cagggtttca ccacgttggc caggctggc tcgaactcct gacctcaggt aatccacca 300
tcttggcctc ccaaagtgt gggattacag gtgtgagcca ccgcgcctgg cttcttcca 360
catttttgt ctaantttta cccctttctt tcccattat taaataattg gcagtttata 420
taattggact tgtccaataa ttaactccta anattacttt aaaaaaattt ttgttttttt 480
gaaanaaaaa nccctctgtt tccancctg gattaaaatg gggtttgtct cactcantgc 540
accccccccn ccngttcan cccatcc 567

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<210> 9442

<211> 573

<212> DNA

<213> Homo sapiens

<400> 9442

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aaatanacag attctcactc tgtcacccan gctggactgc agtggcacia tcttggctca   60
ctgcaacact cttgccttcc aggttcaaga natcttgtgc ctcagcctcc cgagcagctg  120
ggagtacaga cccctgcccc catacccggc taatttttgt agcaaattac tcatttgtct  180
gtctactttt tattataaag attgtggcaa ctctgcttag gactctggat ttttctgccc  240
aattaaggta aaaaaagaaa aaaaaagca accaccacca taatattacc caggaaacca  300
gctgtgttct gtanaaggcc ggcctatcan attcaagttg caagccttat acacagtaag  360
tgtctcatgc acatatccat gangattcac ataagctgcc atcggccacac ataaggataa  420
actgaatatt tcatttttgg ttgttatttc tgtttcttga aattgtttac agccaaagga  480
aattaattta tcntaatgtc taattcccac naaatccctg anaccctgcc attttaagga  540
antnaatcnc catactccnc attaggaaaa aaa                               573

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<210> 9443

<211> 491

<212> DNA

<213> Homo sapiens

<400> 9443

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gctggagcag caatttccca atttattgaa agtgatecgt ttgcaaggat gtctaagcta   60
atcccgtcac agaaaggaaa cgcacaggcg cctaggcaga aacttggana ctcaccgcag  120
angccacgtg aaccacggc cacagaaagg caggacggca gaaccatgat ttcccaccga  180
gcgattacna aaacctcttc cccaatagt anacacatct ccaatacaaa cacaggttta  240
taataagtna taggaagtcn atataatata nattatcccc agaaaaaaat caacaatctt  300

```

caaacactgc cctttnttg tgtgtttgt tttgttgac aggttgaaag catgttgaaa 360  
 aaaataaata ttttaagaaaa gcacacacag caccctcact acaagttant tctaaaaggg 420  
 ctgcntacca aacncnatat tanatctaaa aaaaaccccc ccattaattt ggctttccta 480  
 aaattcccn t 491

<210> 9444

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9444

gaacttccta tgataaaacc atctacactt ttctaagtag gaaaaataag ggaatgagtg 60  
 tcatgttttt aaaaatttgg ggaaagatca agagtacaga anagcatggg gcaaaaaana 120  
 agtttaggtg catttaggtg acatcaataa agcccagttc tttttttttt ttgacaaatg 180  
 ggatcatcct ataaacattg ttaggcaa atacaaaatct atctgcgctg tccctagttg 240  
 ggcncacat gcncatggc aatctgtctt gctgctgtgc agtccttccc tgggtggctg 300  
 caggggcaaa cacagggttt gtnggtcctg ggtcttataa aaatcaggta caaattgaca 360  
 cntntattta aaagganaaa ttgccaaatg anacaaaatg ttttccttat gcaaatttca 420  
 taatataaat tatanacact gccagtgcac tgttangacc ccncgggctt ggaagggctc 480  
 natattattg ggtttacaat aanattgggc cnagttaatn tccaaaaatt actcccccn 540  
 ttc 543

<210> 9445

<211> 375

<212> DNA

<213> Homo sapiens

<400> 9445

accttttcca caacatttta ttttaataa aacttcaagt actcttacgt aggtacaaaa 60



aaaatctgat ctatttgcct ccaacaggcc accacaacac acagtagata aaacacagtg 120  
 gttacaaacg tcttttaaatt ttatttctga ggcaaggcaa atgggaggga aatgtttcta 180  
 tgaaaaata ctgtgtgcgt aggaaattgt cacaatttta ttccacatgg atacaaatga 240  
 ttatacttta atttaggccc tggtaggctta aaattatata acaaaataga aaaatggaaa 300  
 actaatatcc cctacccctg tttcnaaggc angcnctacc canantaang anaaccccc 360  
 ctttttggtg aaaga 375

<210> 9446

<211> 493

<212> DNA

<213> Homo sapiens

<400> 9446

gggtaccana atggttccaa ggtagtact gcttgagctc atttcagctt ctgccatgca 60  
 tctttccata ttactgagt ttaaataaat catctcagag agaaaagaaa aactaaatat 120  
 agaaaagtgg gagtactttc acgtttaata cgcaaggga taaaatanaa tgtaggaaa 180  
 caatttgat tttttccct aaaatatagg tgactatggg ctantttaca actttccttc 240  
 tctcactgaa ataaaaatac atagttaagg aatagggaac aatacataac aggtgacatt 300  
 tgacagtttg ggcatattcc ttgttacttt ctaatcttga gaatcacagt ttgctgtttt 360  
 agaagtatct ganangttcc agataaaaag cgatggctaa atgctcttaa actttgagcg 420  
 tgctggatgc tctaaagttg gagaagaatt tataacanaa ccttacnatg aanaaccnac 480  
 ntccnaaccc nct 493

<210> 9447

<211> 496

<212> DNA

<213> Homo sapiens

<400> 9447

ganaacaagt ttgtctcttt ttgcctagcc tggaatgcaa tggtagccatc tcagctcacg 60  
 caacctctgc ctccagttct cctgcctcag cctcccgagt agctgggatt acaggcacac 120  
 gccaccacac ctggctaatt ttgtatcttt agtanacca gggtttact atattggcca 180  
 ggctagtctc gaactcctga cctcaggtga tccaccacc ttggcctcct aaagtgctaa 240  
 nattacaggc gtnagccact gcaccagcc ttgtatactc tttgtcctc atttcagtga 300  
 ananaattaa tgttngagaa aaatggggca acgagagaga gattactgaa aacacttatt 360  
 gtgaggaatg aanacctgac tctcaattcc actatganca cnttacaggc agctctggac 420  
 acctgaagct aacagtccaa tatttgaata aggctgttac actttcnctt acnggttttg 480  
 gncnccccct tnttta 496

<210> 9448

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9448

gagacggaga cttctctgtc gccatgctg gaggcagtg gcactatctc agctcactgc 60  
 aagctccgcc tcccgggttc acaccattct cctgcctcag cctcccgagt agctgggact 120  
 aaaggnaccc gccaccacgc tcagctaaat tttgtatctt ttagtaaana cagggtttca 180  
 ccgtgttagc caggatggtc ttgatctcct gatctcgtga tccacctgcc tcagcctccc 240  
 aaagtgttg gattacaggc atganccact gcaccaggc gttgtatgtg tgtattatan 300  
 aatgattaaa tcaagctact taacatatcc ataacctcac ttacttatgt tgtttacatg 360  
 tgctatgaaa cttttaaaat ccactctcat ancaattttg aaatatacat tacattatta 420  
 ttaactattg tcccatgctg tgcaatgat tttaaaaact tattccccta ttttaacaaa 480  
 actttgttaa tatttaatga gttcctcna ataaccnnaa cccgtttgaa gcctatgacc 540  
 ccaattnaaa ttentttgaa cncctccta gggcgtttta ttnttg 586

<210> 9449

<211> 368

<212> DNA

<213> Homo sapiens

<400> 9449

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ccatttagtg acaggaattt aagcaaggac ctgaagtana atcaactgat tcacacagta 60
gtaaatacaa agtanaacaa tgatcttggc ttcgctgtct gggtcagtg tctgctggaa 120
tgcaatacac aagttaagtc aactgcana ctgttttcta gctgtggccg ctggatgcca 180
cttctagcat agtaaaacta tgtaggagg aatgggaaaa gtgagcacca cttctcacca 240
tgttcccccc tctgctgcc agtctctgct cccatgttgg atgcagcaga aatcnccnc 300
cacttggccc aggacanacc aatangaang ggtccaatcc tctactacgg cgaaatcntc 360
tccncaac 368
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<210> 9450

<211> 381

<212> DNA

<213> Homo sapiens

<400> 9450

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anatctttct atgtatttca acccttccaa ctgcagctga tccagctttt catttcgact 60
ttcatctana ggtatgtttt cacacattac aggattgaat ctaaaatagg tgtcaggagg 120
taacaggcca tcaagcatta tatggacttc ttctgtatct gtagcactgt tgataacatt 180
agaaagttaa gttttcaagc ttgtgtntgt taccgtgttt ctcatcac tctcataacg 240
tccagtcccc agggatacta tgcactctaa cggcacatct ggccaaagac atttacactc 300
atgcatanct aatgccgaan ggtnattcan aaacaaactc cancttgatg aanatcattt 360
cccatgcat attctgcnaa a 381
```

<210> 9451

<211> 584

<212> DNA

<213> Homo sapiens

<400> 9451

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ggaaattaaa gtaaactttt aatgcatata ttttaaaaat tcactttcca ttttactatt 60
ttaaagtgca tgtnaaatc tttccattt ttggtaggt aattaatttg aanaaggga 120
atacaatgct ttactattac taccaacagg attttacaca agaaacatta gtaacttaag 180
ctgtggatcc tgtgaatgtn caactgacac agattttgta aatccatact gggcctggaa 240
cttatgttga ttataaaagt caaagggtaa ttttctttta aagatatatt acttataaaa 300
tattcccgaa gtatgaattg tgcttttagt ttaggatata tgatttaa at tgatgcacac 360
tgcagatgaa tgtttacccc tgctgtngat ttaaagaaca gcatanatat ctcaagaanc 420
ccnaataaaa ttaatttttc cccccctgt ntaactcctt aaggatttca tccccaaagc 480
tatccanaaa accccctact ttaaccaanc cnttgttaaa tttattaccg gatacaaaat 540
nncccaacce atttttgggt naaattaaat gaacttcccc ctta 584

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<210> 9452

<211> 532

<212> DNA

<213> Homo sapiens

<400> 9452

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gacaatggaa atgtttattg ctgggtggtt ggtctgtcat ttcctaaang acatagctgg 60
ccagcagatt ttcatttctt ttttacaaa taaacaaatg cctactttat tatttataca 120
cagaaaatta tatanaaaca ccacacaaac tgcttgaaat acaaatactt ttgggtttac 180
ttatcaaagt aaaaaataac aaaaatctta tcagttaa at aaaaagtga cattctttat 240
caagccttct taaacactga aacgcacgca tttttatgct catgttcttt agcagtattt 300
ctcccccttt gccctcatt cccctaaatt gtttcaatga gttcatctgt agaatgaana 360
ttgttacctt tcttaatgct acttactttt tattatctca atatcaagac caatctagac 420
ttttttgtct cttacatgtg aaatggaagt ttaaaaagga aaaatcccn cccctttttt 480
agaaaacctt naaaaaaccc ntnnncacct tttcaggggg tgaaaccct tn 532

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<210> 9453

<211> 479

<212> DNA

<213> Homo sapiens

<400> 9453

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gtcttcagtg aagtttactg tatattataa acagtcatag aattcaaaga caatcatata   60
accaactctt ttggatggct taagatgtgc caggtactgt gctaaggaca agagatataa  120
ccagatacaa accagtcccc atcctcaatc attacttatt cactcaacaa atatTTTTga  180
gtacttaccc tgcaccaggc actagggata taacagataa aaattaagtc tctcgcttca  240
tgaagctttc attctgatag agggagacgg caataagcaa ataaatgggt tattccacca  300
ccccttcaag tcttcaactc aatgttcctt tttcaatgag actatataac caacgtatTT  360
aaaatttcaa ccaccatcct gcattcactg cttttcntct tgctaanggt gattaatatg  420
tntttatttg actgaacaca angggccnna tacttgggtcc aacattatnc tgggtgtgt   479
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<210> 9454

<211> 467

<212> DNA

<213> Homo sapiens

<400> 9454

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gcaggggggaa aggcaaggaa tatatcgtct acacaattgg gacaaattca tcttttctgc   60
tcttcaactc atgtccacat caaagtccag caccagcagc ttggtttctt cagtccatt  120
ccgactccca actgcacaca ccagctttgt gtttgaggct ctgatccgcc acacaactcc  180
cccactcccc ccactctcca atgtgactag gtttcgaata aattcacccg ttttcaagtc  240
ccatagtttt acagttccat catctgagct ggtaattaca aagttcttgt tgaactgtaa  300
acaggtcaca gcactctgat gcttgttggg accttgcaat gtttgtaaac actgtcctgt  360
tttgatatcc cagattttta ctgtanaatc tgcattccca caaacaaaaa tattgtcttt  420
```

gaattncntt ccncttgtn acaaaatggg tgncccgttt acntttt

467

<210> 9455

<211> 483

<212> DNA

<213> Homo sapiens

<400> 9455

gtcttttgtc aagtttatta tggttggttt gctcagctct taggaaagag ggtttggaga 60  
 cagaccggtt aggccaggaa aatttaggcc cacaagtccc ggtggagctg ttctgatgga 120  
 gttgttctaa tgggtgcttc tctcctgcag aacttgagca atcagtccga tgaccaggga 180  
 gatgaccccg gcagagcagc ttgccactta ttagaactgg gcttcatgag aggctcttag 240  
 gacactggaa atttcaagtt aatatacctga ataggctttc ttcctgtgaa aattttgcag 300  
 gcattgtcca cgatggatgg aggaaaagag ggaaggcaag agaccaagct aggattgact 360  
 ccaatattct ctgccaccct gtccaacac caactcccat aacctaataa ggggtggagg 420  
 tgggaatcaa atttgcnttt ggtgatant gcaatttntt ccnactaaat cntccnanc 480  
 cct 483

<210> 9456

<211> 577

<212> DNA

<213> Homo sapiens

<400> 9456

ctttgccaan aaaagttttt attgcaagca cagtgagcan aanagatgt cttctcacac 60  
 aaagtggcca caaggtctgc cattaactaa atctctttga caanccttca ttggtttaaa 120  
 gcatatgaat tagcttcttg ctatcaggtg tacatcattt ctgccatgtg ggacattttc 180  
 ttgggaatat acaagtaata ctccatgtag cctgacaggt cctcaatggt cacatcatcc 240  
 acnaaaactc gagcttgctc anaacaggat cgggganagc canacagagt tctggcgtgc 300

agcgactgaa antagtcctc aagtgtggat cttegttctg gagccaaggg agggacactc 360  
 tgcaggcctg aaaaggaata tacttccata tcatgccatc tcttacactg gcatttccttg 420  
 cctatgcatg tgcattggctt gccctggttt aacttggaaa ctgattgaaa attcnaaaaa 480  
 aatcctgggc tttgaaantt gcttggggga nttgggttac ctcaaaagaa tctccctcct 540  
 acncnccgan gggaacctgg aanaaaattc tcaaagn 577

<210> 9457

<211> 549

<212> DNA

<213> Homo sapiens

<400> 9457

gttttncag gttgtttatt ctttttaatt atgaatgcac atttatttat tcatgaacat 60  
 tgggaaaaac gcaaatacat cagaatcggt aaaaatctac agctcctcat tcttcactac 120  
 tagtttctct tctcagangt aaacactttt tcaaaaattc gtattttaaa tttgggggtg 180  
 ggtaattcac atggtgcaaa catcaaaagc tatgaaaagg tgaagtttcc ctcccatctc 240  
 tcattgctcc aaagcaggaa atcattgtga ttaattttgt ttgtttttcc anaatgaaca 300  
 caaagtttta taatatttgg aaaggacact gtccctcana ntccaccctc taagctaagc 360  
 atttgtgata taaagtcagt anaaaatata ttaacatttt cccctttct agatgtattt 420  
 ctagaaccan aaaaaggaaa ggcaccaggg ggaattataa tctcnttaa agtttgaacn 480  
 acccaattaa tttgtttctc nnaaaaaatt tattgtcca ttgtnactgt tnnaaaaaag 540  
 gaaaagaat 549

<210> 9458

<211> 599

<212> DNA

<213> Homo sapiens

<400> 9458

gatggaaaaa tggaattctc agttcatttg aagaatacag attagcaatt aaaaaataca 60  
gcagtatctc aggaaataaa cattattctc attttacaaa aaagtgtatg tgaactttaa 120  
aaaaatctac actacaatat gaattgatat tatctctggg tagaatgcta acaattttat 180  
tttctccttt actgtattca ctaaagtgtt cacattaaat gttgtattac ctttgaaatc 240  
agaanataca ttgtctaaaa ctgatacatc aagaaatagt tgtataagca tattacctaa 300  
acacagaggt taccaacaga aattaaaagt gggttaaaaat gactcctggg gaactgtaag 360  
aagangaagg tgaagggaan aaatggttgc tttccattct aaatcttcnc acaatctatt 420  
cttaaaatca gacaaagntg tggtaaattt tttccattat taaaaaaaaat tatttcctcc 480  
tataagaata ngcccttgaa aaaccatta attgttatag gttcccatc cctttntccc 540  
cccenttttt ttaaattgcca ccnggttttc cnaaaatatt tccnccccc ccggaccnn 599

<210> 9459

<211> 456

<212> DNA

<213> Homo sapiens

<400> 9459

atattagatt ttaaaatatt ttctttgctt ttattttaat gctttatcct ttacttctgg 60  
ctttganagt aacaggggaa agatttanct tcttactgtg aagaaacaga aaattantcn 120  
aaaatatatg aaacaactgc agatattgac atgcacctta agactatgac ccctganagg 180  
aatgaagtga ggcccatcca tcattctaga tttctacctg caggcacaga cctcananca 240  
gggtagggga tcccaaacaa ancatggtgg tttcatgtnn ttganaaaac agaggctgga 300  
gttcaggag gctgaantgg ctgaagttgc agagcagagt nccagagagc ttacngatat 360  
gtttaaacag aattccagaa atctgcntat ggagcccent gagangtggc tggatattaa 420  
gacatgtnag cctagaacaa aactctnca agtcna 456

<210> 9460

<211> 568

<212> DNA



<213> Homo sapiens

<400> 9460

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gtgagtggca acattttatg tatgctaaat tggatggcaa tattagatta catcttctgc 60
aactgtggtg tcaaaaatct gatagcaaat ttgattatct gttccatttg tgacattgta 120
tgacttgatg aagcattcca accacggata tgcatacaatt tttattcctg gaggacaaaa 180
catatccatg atcatatcca cacttttctg aaggatcatca tccatcagaa cttctgatgc 240
tggaatctgg aanaatttgt canaatccat ganataggct tctagtactc ctgttccatc 300
atcaagtgtg aaggtcataa caaacacata ttggaggggt ncaataccca gtgcttctgc 360
cacagaaaga angaatccac gatgttttat caaccagggg aatttanatt ttgtatggat 420
ctcaaactan aacactgttt acatccctag tgatgttttg ttccctgtat aaaaaatggt 480
gctgaaaagg tccaaaattc ccaggtcctc cttggcccnna tntccccgga atttcccttn 540
ttaaaccttn ttccaaaaat ttgcatn 568

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<210> 9461

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9461

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ctgatttcat cttttattaa aaagctgana nttaaagaac tgtagggata actaagtcca 60
cctcaaagtc canacagaaa ctgccctccc aaagaaacaa tgtttcttta aaacaaatac 120
cacaccttcc canatattat gggtaggtaa gtgactagggt ttgcaaatt aatctatagc 180
tgcccatgtg catgtagtcc aaaaaacatg ccaagaagga anagctctga accagacaca 240
gaaaggcagt gtggcttccct cgctcaaggg gaatgcaaag ggctaananc cctggcttca 300
agcagctgtt atcctagatg aggaaaatgc aaacagattc aatctctggg atattgctgc 360
caacatgcta agcccttcac cagttgcctt gattcgaagc agttcctcta tgtntactgg 420
ctaaatgatg gactccggca gtgaaacca catactcagc aggtgcatt ctaatganaa 480
tgaangaatt taactaatgg tgtttgaact ggaaaaggta aggtctgaaa atcccattna 540

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actggaaacc caaaaaaaaa a

561

<210> 9462

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9462

gagacagagt cttgctctgt cacccangct ggagtgcagt ggcgcaatct cggctcactg	60
caagctccgc ctcccgggtt catgccattc tcctgcctca gcctcccag tagctggaac	120
tatagtgcc cgccaccacg cctgactaat ttttgtatt ttagtaaaa acgggggttac	180
accgtgttag ccaggatggt ctgatctcc tgacatcgtg ttccgccac ctggcctcc	240
caaagtgctg ggattacagg cgtgagccac cgcgccacg ctaattttgc attttagta	300
nanacgggat ttctccatgt tggtcaggct ggtctggaac tcccgacctc aggtgatcca	360
cctgcctcgg cctcccaaag tgctgggatt acaggcgtga gccatancgc ccancctatt	420
tcattcattc taacacatct aagctganct ttgaagaaaa aatnggtgac aggggaatcta	480
cagccaaaan aantggttga agaattgcca ccaaactctg ttactaaggg gcccaantnc	540
tcactcctnc aaacttcccg gn	562

<210> 9463

<211> 541

<212> DNA

<213> Homo sapiens

<400> 9463

gaaagtatth attgtttaat aattctttct ccctcagcc ccatccggnc actctctctt	60
tctgcttttc tgatcctcct aaaggctgaa tacatcctcc tcctgtgtgg angacacgaa	120
gcaatactaa aatcaatata ctgatcagg tcttcatcan ataccacgtc actgtgggta	180
nantgctagt tttcaacaaa tgtgggtgtc ttagggctcc acaaggtant cctttctcaa	240

ggtcgctggg ccactcatgg agttgaaatg ccgctgcccc tctaagtaca acatggactc 300  
 tccatatgtt ttgggaaaa ccaatggcac ttctttttcc gacatgaacg tgaaatgaaa 360  
 gacattggtg gttgtatgct gtttctcctg cagggangcc acttcactgt gtactctgac 420  
 ttgaatataa ttattctgaa ataaagcata cctgtgaana aagaaagaac nntgancccc 480  
 ctccacaggt tccgaaacat gatttctcta ctgctancac aaacggtcna aaaacnccaa 540  
 a 541

<210> 9464

<211> 460

<212> DNA

<213> Homo sapiens

<400> 9464

gtaataacat tcacatatgt aattagagtt taaaaatgta aaaaacttag ggtaacaaac 60  
 actttaaact ttttttttag acattcaata agccatttct cccacaaact gtttgattac 120  
 aaagaagcac aatgggttaa ctgtggcaaa acataagaaa taaggcaggg gaggcagata 180  
 cagacttgan aacataagga tatccaaaca attttgtcaa tatcaaaaga caaatcaaa 240  
 acatctttta taatataaaa caaatccata taattaaata ctaattaggt gaaanattat 300  
 agggatatata acatatattt tctctacata aatttgcata tcttaaattt aatgcaaaac 360  
 atcatgtttc acttcaactt aacatcntaa catgttantt cttggtgant ctanatntta 420  
 tggaatgaat atttaaatta aactncaaaa atcctancca 460

<210> 9465

<211> 349

<212> DNA

<213> Homo sapiens

<400> 9465

atttctgaaa tttttatgtt tcatttttcc cagaggaata agatacattc tgatcccata 60

ataatcgaat cacaaaagaa accattgagg gcatttgctt tgctgaactg atgagatgaa 120  
 tgattaattg tctggaattc ncttcctgg agaggcaaat ggaggntag gaaggccnaa 180  
 aattaaaatt aaaattaaaa acccnaggaa agagaagaga anaaaaggaa agtttaagag 240  
 aaaaagaaag aaacnaagga gaaaaaactn tnaagtingaa aangagaaa gtggaaaaaa 300  
 tattccttg gggtgtatat tgtcttctag ggccccntga caaaatacc 349

<210> 9466

<211> 566

<212> DNA

<213> Homo sapiens

<400> 9466

gtatttttag tanagatgag gtttcacat gtttgccagg ctgatctga actcctgaca 60  
 tcaggtgatc caccacctt ggcctccaa agtgctggga tcacaggtgt gagccaccac 120  
 acccgccca taaacatata tgtttaatca gagctttaat gaaataggat ggangtactg 180  
 aatttgtagan tatecttttt gctttttgag acagantctc attttgtcac ccangctgga 240  
 ntgcagtggg gcaatcatgg ctactacaa cctctgcttc ttggactcaa gtgattctca 300  
 ngcctcatgc acccaagtag ctgggattac aggtgtaccc caccacacca agctaatttt 360  
 tgcattttta gtaaaaatag ggttttgtca tgttgaccaa actantctca aaccctggct 420  
 tcaagtgatt cccaccttg ggccttaaaa attgctnaaa attaccactg aaccacacct 480  
 gttgaatatn ctttaaata gattataagg tttttgcctt ggaacaantt ttcnggaaaa 540  
 aaaatccaaa anaaanaacc cttcct 566

<210> 9467

<211> 545

<212> DNA

<213> Homo sapiens

<400> 9467

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 acaaaggtct caggccctgg gtccaagccc acagcccca cctgtcccct ggctctgggc 180  
 ctggtctttg gtgcccaccc tggcctcaca tgccaacgtc ttctgtggan tgtgcaggtg 240  
 tccatganccg ttcctgtgtt gggggaancc tgcctgggcc acaagtaatc aggcactgtg 300  
 gcagcctcac aatnaaaaca ggtgggggtg aattgggtcc ccacctgccc angctcangg 360  
 gccacagggg tctacacagt cttttctgct ttgaaacacc tngtaaattgc tgggtgggaag 420  
 gaacatggca ccggcaccaa ncaaggaacc cacttgatg gncacaccaa ctgccancaa 480  
 tnccgggcca ancccacat gcacaaggaa acttgcnccn cctccccttt taaaaacccc 540  
 ccnaa 545

<210> 9468

<211> 532

<212> DNA

<213> Homo sapiens

<400> 9468

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 gccacatgat caaataaaat ttacactttt gatgggattg tcccctcgcg gccacccaag 180  
 tgtttgtgga anaaagtctg gagttgtttc caagcatcca cctgagccat ggcatgagcc 240  
 ctgggctccc ctcccanaat aataggactg cccaccaagg catgcaggga ancccgacac 300  
 agggggaant aaggaggctc aatatantgc cctgtctctg ggtaacaaat gatctggggc 360  
 tttctcctcc catgggcctg caancgttta cangcctcnt taacataaaa atccctcctc 420  
 ccgttgttgg tcctncctga cctanccaga aacaggaaag ttctctctgc cctttncccc 480  
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<210> 9469

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9469

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aggttaattc tttacatggt gagggtgca cagaaacaat acatcaatcn tctgttacca 120
ccganagana cactttaagt tncccaaga gtacaaatcc catctatgaa acagcagtgc 180
tggtctctta aaaacagtaa aaccaatcaa aaagaaaaga tttagagggt cagacattag 240
aaciaatgtg gccaganata ccacagagcc ctigaaggga aaggcctcac tgctggctcc 300
gtancaatgt tgaccnnaa acagggcagg ccangggant ggcagggcgc ggaggggtgg 360
aaaggaggga ngaaaaaaaa tacaccctc cagacctgcg gcaagcgcca ctatgggatt 420
ctgaagttag cgtcnccctc caatttncn ggaaagggan tgcctggccc aacangggca 480
atttttaag gcccnngatt tntcc 505
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<210> 9470

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9470

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taatTTTTTT tgtatTTTTT antaaaaacg gggtttcaca gtcttagcca ggatggtctt 180
gatctcctga cctcgtgata cccccctt ggcctcccaa agggctggga ttacaggtgt 240
gagccaccac gccagccaa agcctgccct tcttcttate tatccatcct ggtctccca 300
ttttaggggg gctctggttt ggctctttct gccttggtgc catttgctt ggactcttag 360
ctttgacctc taaganatta agtcctacac ctcatTTTgg cacttccta cctatcaagn 420
aagtgacttg ggcaccattc tggacactaa tccttggcan gctccaangt tctatccta 480
cattggttgn aagttgggga aaaaactgtt ggtcttttat taaaccnctn cccccctc 540
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nan

543

<210> 9471

<211> 488

<212> DNA

<213> Homo sapiens

<400> 9471

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tgattaattg tctggaattc agcttcctgg agaggcaaat ggaggtatag gaaggccaaa	180
aattaaaatt aaaattaaaa accagaggaa agagaagaga agaaaaggaa agtnaaagag	240
aaaaagaaag aaacgaagga gaaaaaacta taaagtggaa nagggagaaa gtggaaagaa	300
tattcctttg gggtgtatat tgtcttctag ggccaccatg acaaaatacc acgactgggg	360
gatttaaaca acaccagttc attttttttn cagttctgga gactggacct cccanatcna	420
ggtgcaggcc anactgggtt cttctgaagt ttccnccct gggtttacaa atttctct	480
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<210> 9472

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9472

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gaatcccttg ctggagacca cacgancant gacattgcac ggananggca gctttgggtt	180
ccgccgccgt cactgaaacc accggaangc ggctcccgtc ggaagcatca ccttctccan	240
ancagcggaa gcttcttttt gagttcctcn cattttctga atttgcaaat ctgatggcca	300

gtctttcgat tcctacaact gctgcactgc tcgcanttga tgcncncnccg gcagggcgcg 360  
cacattccgc agcgtttccg cttcttcttg ccgganctga tggcanaagc cagctctccc 420  
tgcattgggt atcaccaagn ccnccatttt ctcccgtctt ccggccanga aaaaacctgc 480  
ccgggggtcnt tataaaaaag cctgggttna ttggggaaac ccccccttng ggganattcg 540  
aatggccctt naagggtncg g 561

<210> 9473

<211> 462

<212> DNA

<213> Homo sapiens

<400> 9473

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acagcaaagg cagaggcaaa ccacccacc ctttctcagt tggggctgag aaagagctgg 180  
gaccctggca gccacacac agtctcttca taagctgtaa taaatcactt atactccttc 240  
tcccaaccgc ccagctagge ttcctactta tgaggttttt cctcttctag attgttctac 300  
taagtgttca tttaaaaaac gcttttggtg tctaccttgg ggnaagggtt tcacatcaca 360  
gactgtcctt cccagtgcca gaatgttcca tctgctgcca ttcaaaanga atcaataaat 420  
ctctttaag tncnataatg tttnanaattt tnggtntttt ct 462

<210> 9474

<211> 280

<212> DNA

<213> Homo sapiens

<400> 9474

caagggttta ataaatttta tcttgataac atcaaaaaca agtttagctt ttacactgca 60  
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tttaaata gcttttcttt aaccaaaaaa aaaaaaaaaa aaaaagtgtt actcacagcc 180  
ctagttacat aaataattta aatgcacaaa tgcaaaaaca cacttcacac ganattgtnc 240  
acatactgnt anaacncggn acaattacna taaaaattct 280

<210> 9475

<211> 366

<212> DNA

<213> Homo sapiens

<400> 9475

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tattcataaa gttgcttagc ctcaggacat atgctcagga gactttctac agaggtcgat 120  
gctagcagtt gctggcatag tccgtgcacc aggcttcacac tgtacagtcg agttaggtct 180  
ggctctggga gaggagtggg cagcagctgg ttgagataca tccccatctg gagacaggac 240  
tgccactgac agaagatgtg agctgtgtct aagtccagtc ttgtgccag ccgtgtctgc 300  
gccttcactc ttggaactc tgcatacaac atcttagcac natctnctg cnnctctncc 360  
ttacna 366

<210> 9476

<211> 405

<212> DNA

<213> Homo sapiens

<400> 9476

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atgacattga cactgttgct agcactttcc cctaaaccac ccataagtct tggacgcatg 120  
tgcatgcagc acacacacac acacacaaaa accaaaaaca aagccnaaaa aaaaaaaaaat 180  
cccaaacaca acaatccatg attgttcaat gactcctgat gccgggagga caggctgtta 240  
aaaaaatttg tctcccacaa tatctctgga gtgggcacaa agcccatcac ctgttagtga 300

tcacagacat tcagttaacc tgtccttccn gtnatcngaa aaaacaattc aaacccggaa 360  
ttccccaaaa cntnttttg gtgaattntg ggtttgaaaa naaaa 405

<210> 9477

<211> 374

<212> DNA

<213> Homo sapiens

<400> 9477

gggaacaaaa atttgctttt aaaatgtgag tttataacac ttgaaggatt tcattcttaa 60  
ctcccaatta tataattaca aaaaaaatcc aagtttcagg aaaacatact taatcctaac 120  
ataaaattca tgtcacttat cacaaagaca gtcnagtgtt taaaggagaa acaaaacaga 180  
agcagtattt acaaatttaa actacatgan atgttgtgaa caatcttttg ttaataaaca 240  
gcacgttaca tactttttaca tactacattt caaaaatgca tctgtgaata atatgataaa 300  
gcgcatagtg ttgaanactt taaattaaat ccnaggnent cntgttgaan acctgaaatt 360  
aaattcnagg ttgt 374

<210> 9478

<211> 443

<212> DNA

<213> Homo sapiens

<400> 9478

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gtgcagagtt attgtttcaa aaagtggagaa actacttagg tttaactgaa ganggaacat 120  
gatctttatt ggcttatatg caaagtttca ttttggtttt atgcanantt tgcatagttc 180  
atgatttggt tctaataaaa aactaaatgt gttgccagtg actgtgaaaa aaatcaggtg 240  
acagtagcaa acagaaaaat ctgaanaaaa agcntaactt ttaaagtnaa aaggtcngca 300  
agaactgctt cagctgcagc cagtgatgtc acctccatca gggttactgc tcggaaagca 360

aacacggnag ctgccagcac agcaagaatt tccaganaat tgtntcctan gattctatcc 420  
cntaaaagca ananctgac tgt 443

<210> 9479

<211> 496

<212> DNA

<213> Homo sapiens

<400> 9479

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cagcctctgc ttcctgggtt caagcaattc tcccaccica gcctccctan tagctgggat 120  
tacaggggcc tgccaccaag cctggctaatt ttttttgtat tcttagtaaa nacaagggtt 180  
caccatgttg gccanactaa tcttgaactc ctgacctcag gcgatccatc tgcctcagcc 240  
ccacaaagtg ctgggattac aggcatgana caccacggcc ggccccaant tcttgaacat 300  
tacacttttc caccaacatg tnggtatttt catgtgggga attaaccggg actggaggan 360  
ggaggtnagg aattgatacc tgttcacttt gcaactaaca aangaaaatn ggttcctttna 420  
aaacatttac ttttttccat gtnggcccaa nataaacacc ttaaaattta attgtttacc 480  
ttnaagggtt ncctac 496

<210> 9480

<211> 346

<212> DNA

<213> Homo sapiens

<400> 9480

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ggctccccta ntgcccggtg gcctccttc cacacangct gggcggaac ggcaaatnan 180  
cgactaaccc ccnactaaaa agcggctgct gaaaagccca agcccacctc tgttcaaac 240

aagttaacaa anttcanaag ggaagaaaaa aaggganggg aaagattatt ctcnnaacag 300  
gacccccccc ccctcctgaa ttattaanga nggaaagggc ttccca 346

<210> 9481

<211> 490

<212> DNA

<213> Homo sapiens

<400> 9481

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catatttaaa acgcctacaa acagcctttt ttttttaggc aacaaaatac gtccagtcct 180  
tgacatcttc tcatactcac ctagcaccac agatgcaagg acctaacagt aaacatgtnc 240  
aatctcatgc ttaacaccta aagcatgcac tgaattgaat ttgtatgttg tgatctattc 300  
tactaagtat gcaatacata ctttttctta ctaatatatt atacattaaa ttaccngca 360  
gcattttgaa attttaacat tgatgttaaa caacttttga aagatttatg aaacaagttt 420  
ccaggntcc cntcacgggt ggtttgggnt naatngaaaa atggcacccc ccncnagggt 480  
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<210> 9482

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9482

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aactacaggt gtgtgctacc actcctggct aagaataccc ttgtttggc tggctcttacc 180  
ttatagaaag agtaacagta atagtacagt gctactccat tatcaatagg atatgtaact 240

gtaggtttgt actacactag ttttgcacaa tcacctgtat aatcactggc acatggctct 300  
aagactattg ttgcgtcaag ggatgaggtc aatcactaac actgtaaaca gcaagtgaaa 360  
cttaagtnac agaaaagaaa gaactgatgc gaatgaaaat tgctgaactc tgctatatga 420  
taattctcta gctctccact ttagaaaagc cagaatataa accctcctgg ggatatgaan 480  
atgactttcc attttgaatg atctctgaaa tccttaatgc ntcnggatta tattaathtt 540  
tcnccctgcc aacntcccca a 561

<210> 9483

<211> 457

<212> DNA

<213> Homo sapiens

<400> 9483

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ctgcttcctc acatantgaa aggacaang caactctttg ggatctcttt tataaggggac 180  
taatcccatt gatgagggct cctccctcat gacctaatca ccttccaaag gccccacctc 240  
ctaaaacat cacctcagg gttaggattt caatatatga attttgaagg gacacattcn 300  
gaccacanct taaggacang ggtttggggn agttaaaaag gaacttccaa ggggaaacca 360  
acattactaa ttttagattc ncaactattn anaatttgaa nattcctgaa ncttttcact 420  
atccattttc cccatanttt aacacaaata atatgnc 457

<210> 9484

<211> 559

<212> DNA

<213> Homo sapiens

<400> 9484

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 agttttgaat taaaaatatt catgattttg cattgaagca tcctgcctgt gaattaagta 180  
 cattctgaaa tactgggaaa agatttcata tatectgtac ttgaacctaa attcctataa 240  
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 gttttattga tttnaagtat ctttaaagag cagaaatagg aaacaagcat acaccacaca 360  
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 tgcttttaat tgtattgttn cgttttcagt agaccaatgg aaaatacna naatccaact 480  
 gcaaaaaaag ttaggtaatg ccggaatgaa tnccttaacc atatcngggt ttttatttcc 540  
 cattntcngg attaattaa 559

<210> 9485

<211> 567

<212> DNA

<213> Homo sapiens

<400> 9485

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 aaacatanac tttaattaca ttttggtgaa aattcattca actttggtgc ttgtaaaagc 180  
 acttatgtca atttttgaca caaatcataa ccttcagtac acaggtattt tcaaaggaaa 240  
 caagtcactt taaagtaata tttttctata tgctaattga tacatctta tagcaaattg 300  
 aaaattctga gtaaactgaa agtatgctta acgacnaaat aaatacngca tatatggtta 360  
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 aatccagttg ctttctttct ggaaatttta tatagtgtcc nccatntcc acaatgctgg 480  
 aaatntcttt tttggcatca atctatgccc aaatttccga atacntnttt ncnccaaatg 540  
 aaatttactt ttaaactttt ccnnaaa 567

<210> 9486

<211> 577

<212> DNA

<213> Homo sapiens

<400> 9486

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gaattaagaa actaatactt tattaggaat gttaatgtcc attaaaagta taaccaacat   60
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agtggacatc cagtacaaag aananattcc atgtttgtgg ctcaatgtca tacacttaaa  180
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cnaatcatat ggcacaggga aaggtggccn ttggctcctg gctgccancg aaaaacttct  360
gtttcacttt gaaactgtct aaaaccaaat gctgaangga aagaaaanga acccnanctc  420
ctaggaacgg atcatcacct gggttccatt cctcctccaa tgctcccan gccaccttgg  480
aacaatttg ccctttnnac aaggaaccaa cccattttnc tgaattctgg aaaaaggccc  540
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<210> 9487

<211> 550

<212> DNA

<213> Homo sapiens

<400> 9487

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tatgtgtcaa caaaatacag tctttaaacc ttaaatatca tttaaacaga ctttaattgca  180
tacattttat atacncacaa agtcaggatt ttacatggc agggaaatac tgtggaatga  240
tgaggctctg agganacana tgctatcaaa tgaggactct ggggtggtat tttctaaaaa  300
tggggttctg aaataaattt ttattgtatg tagcttattt tacttctaag aggaacaaaa  360
gatacttttg ggcagccaaa gtatttctac ttcctgctta aaacattcag gcnaatgaaa  420
tgattataat aattaggtta gnccttatt aatctctcgg tctccatttc cttatcttcn  480

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taatacccan aaaatttatc cttcctttct ccccanccc cncctggcct tcntnaaatt 540  
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<210> 9488

<211> 536

<212> DNA

<213> Homo sapiens

<400> 9488

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 tcaataaaaa ganaattttg taanaaaaca ttcttggcat gaaagctcta acataaatc 180  
 tgtaatgaaa tatttaccat gcaactttat tggcanaaag gncagtttct gatggctggt 240  
 attttcagtc tcttaacaca ttaacatggg aanatactta acctgcttta tttagagtta 300  
 attgtatata aatacaaagt catgatgggc aacctttcca tantccacct acttaattga 360  
 ncagttctaa gtangtaatt ggcaccttgc ctttctggtt tcccctttcc cccattagcc 420  
 agtctgaatc cattccaaca acactgaaca cagtgatecc tcntctgcca aaaatnataa 480  
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<210> 9489

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9489

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 ttcagggtgg ctgggcactg caaactgctc cctcctctgt ggtccctgaa aaaaccaca 180  
 cgcctgcttc anacgtntcc acgcacacca gtcctcacag acacacacac acatgcatgg 240



aggcaataaa tatgttccgt accaaactgc cccagcctg acgcttcagg gggccccctc 300  
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 aaattgggat tggaaagcca nactctgita tctccatttg ctgactaaan gccaatcctg 420  
 gggctctccc cnggaaaagg tntgggaaac actntttctc tataacccca agctaccctg 480  
 tttcatgct ggaacccaaa naagggtcnc ccccccaaaa attccctnc caatcttttt 540  
 tc 542

<210> 9490

<211> 443

<212> DNA

<213> Homo sapiens

<400> 9490

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 ggcagcagcc atgctgaagc accagcaact catagtcctc agantggagc atctggaagc 180  
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 ggggtggggg ccatcgcttg atgaggacat cccggcgggt catggagcgc agcaccagcc 300  
 ggctcaccac cactggcacg aactctgagc caccttgctc aaagctcagc ttagctgtga 360  
 acgggtcctc atctccgatg gagtccttgg tctccactag ccgcagaant ctggganctg 420  
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<210> 9491

<211> 526

<212> DNA

<213> Homo sapiens

<400> 9491

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 ctacaacctt aaactcctgg gctcaagcaa ttctcctgcc tcagccttgg gantagctgg 180  
 gattacaant gcccgccacc acgcctggtc tgccaatact ttctatcagt ctgtcatgtt 240  
 tactgtcttt tctccatac anaanttttt ccttctcant tgggtcaagt ccattgacct 300  
 ttctgttaca gcttignaatt ttgtgtctta cgtaaaaaan gtgcccctgc tctcactttc 360  
 tgcacaacta tcagggtccag ctcataacaa ttcttctatt tatccatcca ctgccccaaag 420  
 aactgcctgg gcattcaatg gcccgcaacc ctnttccanc ccaaaggtaa aactccgggc 480  
 cctggggaan tccananaac ancccggaaa tggggnaact ntttgg 526

<210> 9492

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9492

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 ttagctggg attacaggcg cccaccatca cgcctgggta atttttgtat ttttagtana 180  
 natggggtct caccctgttg gccaggctgg tcttgaactc ctgacctcaa ntgatctgcc 240  
 tgcctcagcc tcccaaagt ctgcaattac aggtgtgagc caccatgccc agcttgaacc 300  
 acttttattt tattccttct ctccctaaa aaaaattgan gataantctt gccttttttc 360  
 atcaaccata ataagtatgg tatccattca ctacttgact gctggaaaac tcaggacatt 420  
 tggacaaaat gcttcaaact ggggccaaaa ttacctgtcc ctccaaaaaa ctnanttctg 480  
 ggcatacctt ctctnttttt ggaangccca tnaaattnaa cctaactcct ttttcaaaag 540  
 tct 543

<210> 9493

<211> 532

<212> DNA

<213> Homo sapiens

<400> 9493

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atttttaaag taacatttaa tgaatacaca ttataaaaag ccatcatccc ttaacatggg 60
gaaagtgtac aaaaataatg tgaaagtgtg aaaatttttc tagaatacag gaaacatatc 120
agcagtaaag aagtttagtt taactttttt tttaaagtga aaatagtttg gatctgttaa 180
aaggaataga gttcgcccaa agcacttatt ttcactgtgt gtaaactcat tctttctacc 240
ttaagtaaac tggaggagtc agctgtgtta atatgggtcaa attaatttca tagttttggg 300
agcagggagg ttgtgggaag gacagaagga gaacttgggc tttctttggg cagctgggtg 360
ggcttggagc acttgtgtgt ggggccaaan gtcaggtctg gaaatgcagc tattatgcc 420
aaaccaccag aatgctcttt ancttcaggc ttcatagaatt gcttttaact actccggttg 480
aacattttta ctaagctatn aaaattnaaa ttcctttttc nntaagncc nc 532

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<210> 9494

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9494

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gagacagggt cttattctgt tgtccaggct ggagtgtant ggtgtgatca cagctcactg 60
cagcttcaaa ctcttgggtt caagcaactc ttccacctca gcctctcagt agctgggact 120
acagggtgtg ctcatgacac ctggctaatt tttaaatttt tttttgcaga nacagagtct 180
ccctatgttg ccaggtctgg tctcagactc ctgggtctca ggaatcctcc tgcctcagcc 240
tcccaaagtg ctaggattac aggcattgag cactgcacct agccaggatc cacttcttac 300
actatattgt attttgataa tataaantaa aatgcattga tccattggca natanaaatg 360
aantcngaaa taaaangcat tcaacccac acaaaactaa cctgaggcaa ctttctactc 420
taatgccctt acgttcagtg cataaaaaat catnacttgg cagggtggga cggaaaatgc 480
ttttttttta atacntttnc cccccccctt attccaaacn taantttttg ttgttataaa 540
atccgggnaa ttccccccan aaaaaaac 568

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<210> 9495

<211> 404

<212> DNA

<213> Homo sapiens

<400> 9495

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atcctttttt gacatgggag tctcactctt tcgcccagcc tgaagtgcag gggcacgata 60
ttggcttact gcaactccac ctcttggtt caagcgattc tcctgcctca gcctcccgcg 120
tggctgggat tataggcacc cgccaccaca cctggctaata ttttgcattt ttagtaaana 180
nagggttgat ttcaccacat tggccaggct ggtcttgaac tcctgacctc aggtgatcca 240
cccacctcgg ccttccaaag tgttgggatt acaggcgtga gccactgcac ccggccctga 300
atgtccttgt ttttagaaaa tacacatgtt aatatttata ngtnaaaggg tntcacgtct 360
acaacttatt tccaaatggt tcagaaacna acctntgtt naca 404

```

<210> 9496

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9496

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gtaaatttgt ttaaattctt tgtaaattct ggatattagc cctttgtcag atgggtanat 60
tgtaaaaatt ttctccatt ctgtagggtt cctgttact ctgatggtag tttcttttgc 120
tgtgcanaag ctctttagtt taattagatc ccatttgtca attttggctt ttgttgccat 180
tgcttttggg gttttagtca tgaagtctt gcacatgcct atgggctgaa tggatttgcc 240
tgggttttct tctagggtta ttatggtttt aggtctaaca ttttaantctt taatccatct 300
tgaattaatt tttgtataag gtgtaaggaa gggatccagt ttcagcttcc tacatatggc 360
tagccagttt tcccancacc atttattaaa tagggaccct ttccccattt cttgtttttg 420
ccaggtttgt caaaaatcaa anaattgtaa angttttngt aataattcng aaggcctgtt 480

```

ccgttcccat gggccaaanc cccgttttng gtaacaataa ccaaaccgtt tttgggtacc 540  
gtanccctnt ttttaaaatt ttnaaaatcc ggntn 575

<210> 9497

<211> 564

<212> DNA

<213> Homo sapiens

<400> 9497

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tcattgattt ttttgaaggg ttttcatgt ctctatctcc ttcagttctg ctctgatctt 120  
agttatttct tgtcttctgg tagcttttga atttgtttgc tcttgcttct ctagttcttt 180  
tagttgtgat gttagggtgt tgactttaga tcttctctgc tttctcctgt gggcatttag 240  
tgctatacat ttctctccaa acattgcttt agctgtgtcc cacagattct ggtacattgt 300  
gtctttgttc tcattggttt caaaaaactt atttatttct gccttaattt cgttatttac 360  
ccagtagtca ttcangagca ggttgttcag tttccatgta nttgtgcggt tttgaattaa 420  
tttccttaat cctgaattcc taatttgaat gcacctgtgg tcctgaaaaa aaaatgttgt 480  
gaattcccggt tcctttgcat nccgngtttt aatgttttaa ctncccaata aagtttgtca 540  
attttaaaaa naanttnena aatt 564

<210> 9498

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9498

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tttgggaaag gttttggggt ctgggtgctg acttttgaat cccctgatt attatttttt 120  
aaaaaattcc ttatattatt tcggtgggca gcattatttt atcccactgc gggctctgag 180

caggaattt atgatttgct gccanaacat ttgacctgg aggatgttta cgttcccana 240  
 tcgtatttct ttttttcctt gaaaaataa tacctaggat gcacactgat tcagcccaag 300  
 tatataactg tgggcctaaa aactgatcaa ttgatctgc caccctgtta ggattattta 360  
 acagtggctt tagttctctt ttatactcc aaacttcaga cccagtaagg ggagcatcca 420  
 caaaaccaat agcttctcct ccttggggaa ctttccttaa aggaaaaaat gttgaaattt 480  
 actttttggg ggggcaggaa aaagggaan tctgaatata ctcctacatt gttttaattt 540  
 ttgttggant tctttcctt aaaaaaag 568

<210> 9499

<211> 484

<212> DNA

<213> Homo sapiens

<400> 9499

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 gcctccaccc ctggggntca agtgatctc ccacctcagc ttctcaagta gctggganta 120  
 caggcgcagc ccaccacacc cagccaattt ttgtattttt ttgtaaaaac anaattttgc 180  
 cacgttgctc ganctgggtc ctaactcctg ggctcaagct tccacctccc aaagtgctgg 240  
 gattataggc gtgagccact gcgcctggcc tatttttcct attcttaaag tatttttttt 300  
 tgtttttctc caccaanana nttccatct ttccttgtgt atgttgaggt ttcacccatg 360  
 tccancaggg gctctggcct ttgcaataaa atctacttat gcnccanata aaaacattgc 420  
 aactaactg gaaaatcctt aaaaaaacnc ctcncctttt ntactttaaa aanaaagttc 480  
 ccgt 484

<210> 9500

<211> 513

<212> DNA

<213> Homo sapiens

<400> 9500

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ggtggatggt agattatitt aatttgctga tagtgcattc agtatgaggt tgatttttta 60
caactgctga ttcaaatact gtcacaaaat atttgaaaat cgatctttat gtatcaccaa 120
gtaacttttc cataagtagt atccacaaat acaaaatcac tgaatataaa ttttcagctg 180
tattttctga tctggttaca taaatgttct ttgattttaa ttaagccaaa gttggagcta 240
aacagatttt ctgcaaccat ttcactttta agatgaagtt aaagatttgc atttgaaatc 300
tcccattatt gaattggaag tagcagttcc agttaatgtc cagcatcctc tgaatgccaa 360
tggtctttga gtaaacatat gaaccttcat cgcttttagt tgtttaagac accacttcac 420
atgatcagta agtnacaaca acaaccnctt ggtaaatgen catgaatgcc aatcccngtt 480
tnaaanattt ggggttaaag gataaaacnt ttt 513

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<210> 9501

<211> 482

<212> DNA

<213> Homo sapiens

<400> 9501

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cttcttttct ttcttttctt tctgttgatt tgatgtcgan gtaagtggga tagtgcitgt 60
tactgggtgt tatgcttggc tccaaaattt ctgactctaa gccaaagtctt ttcaaatect 120
cttgggatgc tttcagggca gctgcctcca ttgcagcaaa ctcccttgat gccttttctt 180
cttcctttgc cttatccagg cttttctgtt taatctcact gatccttttt gccacatttt 240
ccttatgatt ctttctctt tcatgaaatt caacactctt gaaatgaaaa gagaaaataa 300
caaaagaaaa ctacataaac atcataaaat tcatagtaaa cataattttc tcataaacat 360
gagaaaatta aaattaaaat gaatggcaga aaanatgaaa acattaattt aatgcaaatt 420
gggcccttta atcnaattna atgctnggga actaccttgg ttttaataata atnttcnccg 480
na 482

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<210> 9502

<211> 323

<212> DNA

<213> Homo sapiens

<400> 9502

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acagggataa ataaatcaat aataaataga aagcaagcag cccagtcctt gatccctggg 60
ctgagagccc ttccaccagg cccaagtcca ggangagaca agccctggtc ttgcgctgg 120
gctggccagt ccanaaggct ccaganggan gcaggcaggg tcccggggcc ctggcggtgt 180
gcaggtctgg ctcaattgtt attcattatc caccaggang ctgggaaaaa cacagtgggtg 240
agggtgtccg gggcccncan gtggtccatn aagatncgct ggaangcctt gctgccangc 300
gactgctggt gcctttctcca nga 323
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<210> 9503

<211> 395

<212> DNA

<213> Homo sapiens

<400> 9503

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aagtanagac aaggtcttgc tatgttgccc aggctgggtct tgaactcctg agtcaaaca 60
atcctcccgc cttggcctcc caaactgttg ggattacaag catgagccac catgcctggc 120
ctatcaattt ttctcaccat gacaactgac ttgggtcatg tcctcatfct acacctgcct 180
cattgtgctt tcccatctgg ttctganttc ctctaggatc aaaggaccaa gttcttacta 240
ttcatgttca tateccagtg ttattgcata taatttcagc tggctgaaaa aaggattata 300
tgttaactga aaaaacaaca acaacaacaa aaaaaacaca tatctctgct gggnaanaca 360
tgaaactnnn gnggaaagat cntnggatta ttacc 395
```

<210> 9504

<211> 558

<212> DNA

<213> Homo sapiens



<400> 9504

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cagctttcca acccagctca tggagcttta ttcanacggg antgacaaca tcttgcttcg 60
ttcttgctgc ccttgaaggg gcaggcccta ctganccata ttccctaaaa acccaatgcc 120
gaaggcccat ntttgacctc ccactttatt caantcncct aggactaggg ctggggcctt 180
cctaaaancc ccctctcaaa acctgttctc acccaccac cactcccgtt gtcaggccca 240
gggaggaccc atgaatgaca aaaatcatnt ngggatatc cctgnactgg gaatcccctg 300
ccancttcaa ggacatntcn tctgacacag gganaactga catctgtcat attcttctgc 360
ctcacgttca cacacacaca cacacacag catacncact cttaggcttt caaaaaagga 420
atttatntgg caaaatttac cnetggccct tttccccccc ccctgaaaga atccctnnaa 480
aatnaactt gcccaanggg gcctcnttct tggttgccca aaaattgccc cctgggcccc 540
acttatttta acnctttt 558
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<210> 9505

<211> 465

<212> DNA

<213> Homo sapiens

<400> 9505

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aactgatgaa ttctggtgat attttattta gaaaaagata atcactgatt ttaanatctt 60
aatTTTTctt tcttgtaa atgtacactaa ttagacgtaa gatagtatta gataataaaa 120
gtatttacac attgaataca aaataaatat aaagtaactg aaaaacaaat caggtttcca 180
ttgacttatt ttgttttccc actgtccatc ctctgtttca ttttctttg ctttttgtaa 240
atccgtttct ttcttgcttt caaatcaact tttggctctg gttttacca ctgtatttct 300
attggtttct cctcagctgg tgttacaaaa acatctgcag tgggatcatg tggaaaaaaa 360
ntcttcggct ctttctttct cagtttttgc acatctttca cttgctgttt ctctctgtat 420
tttgagctg tgatgggata ttatgacacg ccgatgctnn nnnnn 465
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<210> 9506

<211> 548

<212> DNA

<213> Homo sapiens

<400> 9506

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gtaggcatgc anatatttta ttgctgaaaa ttacatttc tacatttgaa naaaaaattc   60
tctgacctat gacctgtggc caagtctgag tagcctgtgc tttcgtttgt ccacgtggtg  120
aagtcccaca gcctcccctg acactcaggg agaatcctct tgtgaatcaa atacaaaagc  180
aaacgtttgt tttgtatttt catttatggn tgccttaact tatacaanaa ataggcaaaa  240
agtcttaatc acattgcttt gagcgtatgt aacatcttta aagactgtta attgatgtca  300
tactccttaa tctttaaaaa taccacctg aggagganat ttgtagtttt acccccattc  360
tacaaaaata aaaataaaaag attaaatcat atacacaaag tctagaanag gaatgattag  420
ctttagttgt ctgtttttaa tcaagcatga nnaaaactaa gctaattccn tacattgggg  480
actgaagaaa atntnttaat taatttgggc ncattacaat ttgttcatt tgggccaaaa  540
aaaactan                                     548

```

<210> 9507

<211> 585

<212> DNA

<213> Homo sapiens

<400> 9507

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gtcctaaata ncatgcgttc atgangctgg ctcactttat ttttgcccc angtcaggtc   60
tcccaaaggg tttccagca ntcactcan antctcctgc agantacca tcaagcanac  120
ctcttcctcg ggangccgtg tcgccacccc aacccttgac ttctggtatc accatctcct  180
gtcacctggg ctccagtctt tgtccgatgg cctcaacagg acatcaaagc atanctacca  240
gtttgaangt gccctcaggc ttggcaggaa ccacgtggac aaaagtcttg taaaacacag  300
cacccttggg cagcctggtg atcanatcca cagcctccgt gtttctggga tgangcacgt  360
anacctcctt agtgtancgg actatccct cttccagggc atacagacat ttattcttcc  420

```

caacacccac ctgcaacaca caaacctggt cactggtcan ctggtcatta aggtgtccnt 480  
 cccaaaattt tggganaaat tctcacacaa aaaccgggcc ctggggcnaa aaggttatna 540  
 aaaaacnccn ctcaggtttc cctttccnct gggttaacaan ttcaa 585

<210> 9508

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9508

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 atcgcagctc actgcagcct tgaattacta ngntcagggg gatccttcta tgnaccagg 120  
 attcaggnnc aagccactac acctagattg catatttctt ttataactta taaaaatttc 180  
 agctatatta aaaaacagaa tagtacaagt nttccatcag tcagcttcaa atttaccaaa 240  
 atcagagcca gtcttgtttc atttgaacct centccactc aatatgaatt attctgaagc 300  
 aaattccagg cattttatca tttaatccat aaatcatagt atctttaaca gataggtttc 360  
 aaaaacaacc acggtacat tattcatgcc taaatgaata attccgcact gtcatacaat 420  
 atccagcgta cacatttcct ggaagtttcc ncaaagattt ttaaaattaa cttgtttgaa 480  
 tcaggatnca aataaaccn ttgcncnaat tnattgaaaa atcncccaaa 530

<210> 9509

<211> 283

<212> DNA

<213> Homo sapiens

<400> 9509

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 agcgatccgc ccgcctcggc ctcccacagt gctgggattc caggcgtgag ctaccgcgcc 120  
 cggcctattt acttttctta ctaagctggg gatctccgtc gccctcggct tggcaggaag 180

gcgggggtag gggagcgggtg ggaaangggg gtgggcnacn actctnatan anggaaaaga 240  
ggaanggaaa gttggggctt actgcagggc aagctcctta gga 283

<210> 9510

<211> 454

<212> DNA

<213> Homo sapiens

<400> 9510

ctggtttcct tctcggttta ttctgttaga atgaaatggt tcccataaat aaggggcatg 60  
agcccttcct cagaccatg gtccatgaca aggggcaggg cananggggc ctggatggga 120  
ntccttgtgg gggaccaggc aggggacttg gatcaacaag caccagacna ntggcggggg 180  
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gctgtggagg gtcaggagct gccccggatc ctctccatgt agttgcgaag ctctcaggg 300  
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gactgcacag caggggcccc tacaggctcc tcagggtgact gggctggagg ggctggcgca 420  
aatgtnnaaa gtctantcnc tncngccgcc ccna 454

<210> 9511

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9511

agaactttca taacagatat tcaatacctt tattatcagg agaaagaatg atcaatctat 60  
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taatgatata cccatcntac agccaggaag cagaacaatc cctccagaaa aaaagcacia 180  
atgccaagat gctctccnac cacaattttt ttaaattctat gaaacaattt ccttaciaat 240  
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taagaangaa gttgggcctg ttactgtttt cagaaattga aaagagtacc atcnttaaga 360  
 taaggaagan aaagatttgt atccatcttt ttgggacatg ttnaggtgag agtgaantgt 420  
 cccanttggg agaatttgtg gatattgctg gaanaattgg aaatgcnccc tattagccgg 480  
 gtantcctct ccccaaccg ctgttttggc cnaaatttg ccccaaattg ttttccccn 540  
 ggggtttttg acctgggtccc ccnaaaaa 568

<210> 9512

<211> 560

<212> DNA

<213> Homo sapiens

<400> 9512

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 caaagatatg tttatgttcc attaaccgag tatgaagcaa aatcattaaa atattacaac 180  
 tgctaaacac agaagactag aaatcaaata gtttcatatc cagtatacag gcatcaaaaa 240  
 cttcaatttc cagctgtttt ttttttctaa ttcatatcat ggatttactt acaaggagct 300  
 tattcctatg ggattaattc aattactcaa tggtaaataag attttagctc agaattttta 360  
 aaggatgact tgctttaagt tactattcta cgtgctgctc tatttctgct cacacttgca 420  
 tgtggccaaa cagatcatgc tctgatcaga taagtatact gtaatctact tatatgttta 480  
 ngaattggca taggggttaa aaggcccaaa ccgttnttta atacncattt tcctaataac 540  
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<210> 9513

<211> 593

<212> DNA

<213> Homo sapiens

<400> 9513

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 catctgcttg accggatggc tctgaggac agccaaactc ccaatggcca aagggtgtg 180  
 aggaanggca acacgtatca naaaaatttt cagcaagggc tgaaacacag taaggtagc 240  
 caaaaatgg aatgagagaa gccctaacc aatgggagtt tgcctaattt taatgaacc 300  
 aaactctaac attgtactgg aaaagcagca ttaaaatcca gcctgattat cacaatttac 360  
 agaatttctc accanangcc cacaggtgaa aaggctgctt actctaaagc ccttagaacg 420  
 tattgtgaac tgcgcattcn aaggatctag gttgcgtgct ccttatgana ctctaattgc 480  
 tgatgatctg angtggaatt ttctccncc accaccacc cgctcccttg aaaaactntt 540  
 ttccccaaaa ctggtncctg ntccccaaaa aggtttggga acgccgcttt taa 593

<210> 9514

<211> 486

<212> DNA

<213> Homo sapiens

<400> 9514

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 aaagggtgcc tttctttcta atantctcat gtcgctttag gtcaactggg ctggcttaca 180  
 cgcgctgtgc ggtcttcatg gaaatgggan ctctgtntgt cagcacagga antggtctcc 240  
 cagcggtcag cctgaancag cccaagtcct gtaggtgctt gccgtctctg aagccccagg 300  
 aacatcagt caanaaggaa aaaactgctg gcaaaaatna ctccaagge tgttctccgc 360  
 tctgggtgga caacctgggt gctggcccca aggggctcct ccaaaaanat gtgtgtgacc 420  
 tggcangtgt nantngcacc tgcanaacca agttctgccg tganaaaaga agaatgctg 480  
 tagttc 486

<210> 9515

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9515

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ccctaaaatc tgttttttct ttcttcaa ataatatcc accacagcta cttattctga 180
aaaaaaagtg gaaggtctgt caacagggtt ccaccagggt gtttcagtca ctggctcggt 240
tcttcacaaa nagtctactt taaaaagaaa tgaanaaaat gaaattgaag cctcaaatta 300
acttttccat actttgtcaa gatacatttc tgctgaaact tatctgtaa tgtgaagtgt 360
ttgtataaat agatcttaac tanaattttg ggatactgct aatttgtaa caatcttata 420
aagccatatg aaagaaaaaa nccaattttt ttgaaaataa attttttttt ttanactttg 480
tttaaattct ctctgccncc gtnataccac ttattgctgg cggttnattc ccgaatttgg 540
anancccaac tgttnttttc gg 562

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<210> 9516

<211> 609

<212> DNA

<213> Homo sapiens

<400> 9516

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atatttcttt tcctttttat aaacgataaa caaaaatcat caaaatcatt tcagcaaaag 60
acttttctat cattggggca agttaaaaaa aatacaatga aatanaagac actttaaaag 120
ctgttggttg gtctcttggt taattttaaa tttagcaata ccatctcaa cctggancaa 180
tcctggaaca gttaccagga tcaccttttc ctttcaatcc ttgtggcttc tgggaatctt 240
canaacctgg gtctgaaagg tgtttcctac atgtctcagg gctggatgca aacctggctg 300
gggacctgag catcaactcc catttagaat cagacatctc ccttcctgc aaatgtctac 360
aactaccaa ttgctcccca acagttagct caatggattg aatttgaga accaactcct 420
aaaatgggga ctgcctggcc atacaactaa naaaaaaaat cnatttatag atgcttataa 480

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ggtgacacct aattaaanaa tattagctnc ttccatatna acccaaattg attttgtgcc 540  
caaaaaaacc ttttccccnt ttaccncaact ttccccctga aaatccccctn aacccaaaaa 600  
actccccc 609

<210> 9517

<211> 552

<212> DNA

<213> Homo sapiens

<400> 9517

aagggaaatg agagtatitt attacaacat cattgcaatt aatattatca atgaatgata 60  
attagtagtg gtgctaacag tagtagtggt ggtaaagcat ttatttttgc atcctaattc 120  
taatattcac tctatgaatt taggacctac tattactccc attttaaaga taagtacacc 180  
gaggtttacc aagattaact gacttgccaa gggtcacaca ctggagtaag ggcagaacct 240  
tanactcatg tctgaccctt cgccccatgc tcttaaccac ataatgccat cttttatttc 300  
agtgacaana caaaagcatt taggtcacac tcttggtgtt aaacaggaaa attatataaa 360  
tgcnaattgt ttaaaatang ttttggattt ctttttganc aaacccccan tcctttaaan 420  
gatatactta aaattttttt taagccgaag aaaatttact actatttacc atgacaattt 480  
tnttaanttt ttaaaaacaa aaggttttta aaaatctgcc tcccaggtgn aaaanttttc 540  
tttggttcn nc 552

<210> 9518

<211> 610

<212> DNA

<213> Homo sapiens

<400> 9518

gagacacgtt ctcactctgc tgccttggct ggagtgcagt ggcatgatca cagctcaatg 60  
cagcgtcaaa ctactaggct caagggatcc tcccatctca gcctcctgag tagctgggac 120



tacaggcaca cagcaccatg ttcagctaatt tttttaattt tttgtggana ccgggtctcc 180  
 ctatattgcc cangctggtc ccaaactcct gggcccaagc nagtctccca cctcagcctc 240  
 cgaaagcact gaaatttata ggcataagcc atcaccceca gcctgacaat ttttttagg 300  
 anaacaaaaa caaagtgagt tctacttgct actttaagc accacatgtg aatattcaat 360  
 gatgtttcat tgcaaattgg aaactaaatc ccatttgtca attttggtt ttgttgccat 420  
 cgcttttggg gttttaanan atnaantcct tgcccatgcc tatgttctga atgggtgtgc 480  
 ctaaggtttc ctcnagggtt ttaatggtt ttaaggcca anatttaatt ctttaacccc 540  
 cctgaaataa attttggtt taggtttagg naaggatcca tttcnacttt ctncatttgg 600  
 tagcccnttt 610

<210> 9519

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9519

gcagttacaa catttaccac tttattataa aggctacaac tcanaaacag ccaaattggaa 60  
 gacatgtntn ggacaaagaa agatggtagt ttgcatggat ganataaagc cccagggggac 120  
 agggcagcta cacatgaatc caaatagtct aatctccaaa aggaacagag agtggattca 180  
 tacaacatac caagcccgcc ccctaaatgc atcccactca ggtcacttat aaagctccaa 240  
 ggatgggcca agaacacaag ctctacacca gggaaacttg gaggcattcag aaggacagaa 300  
 taagaccag gttcataggg gatgaaaaat cgaacagana accatctcag ggcatattgtg 360  
 aangtccaag gatggagana anaagtgtg gcttacaagt gggatgaagt ctgctatacc 420  
 acaatggaag ctgaagctan cangaaaca ctattcctct ctgaancagc tgcggctttt 480  
 tgcaaatcca ttattgtcac gtcctcnat gtcttcncc ctgccctaatt tcnccatct 540  
 cctccctatg tngttcccct ttccttncct ggaactggtt acaagtaacc nccccct 597

<210> 9520

<211> 623

<212> DNA

<213> Homo sapiens

<400> 9520

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ccaaaattaa cttttttatt aaatcaagtt aaaaaaaaaat gttcagtgta gaaaagtcaa   60
caagggtttt aacaaaacca aaatatacct ttttatacaa tatatgtata tattagcagc  120
aaactacttc tgagattctc tttcttttat gttcttctag ttatttttaa gaaagcataa  180
acaatgtata ttagtatgga atgtcagcaa atccactctt agtcctttat tctgtgattt  240
gggccttcta caaaatactt tgtgattctc actaatgaat attaagaaca tacccaattt  300
taactaaaaa gtagtgaaac agtggttggt agaatcttct tcactatata acggtcacac  360
attatatttg agaataacaa atgagcacca tataaacagg taattgtgtg tgtgtaaact  420
caatttttaa ggtgtaatag tagccaacta gataacttag cactgtgact atcacttttt  480
aaaaatttgg tgatatacaa aattttaaac aaatcagata aacactccac ccctatgctg  540
tccattaaaa aancctaata aaaatcctat atataaccga caactgcata ccccatnttt  600
nttttttccc cccaaattnt tnt                                           623

```

<210> 9521

<211> 566

<212> DNA

<213> Homo sapiens

<400> 9521

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gcatgangcc aatactgtta ttgttcacat ttacagagc aagaaacana ggcagcgagg   60
cattaaaaca cctgtctagg gtcacagggt gtacagcttt cananccagg aatcataacc  120
aggctctgtc tgttctaaag cttgcctttt gtaactcctg cacattaaac aaataatcac  180
aactaatttc ttaaataatt acaanaaanc caagtgtttt gaagtataaa tacaaagggc  240
taccgaagca taaaatggga attggaaaaa tacctacctc acccanaatt attgtnagaa  300
ttaaaaagca ctcatgtgtg cactttgtat atcaaaaaga actttaaaaa tgttcagcat  360
tgtcaaactt tgnccanga nanatantct tatctggaca ttcacacct tgaaatttcc  420

```

aaaatgttaa acgccctctc ctgaacagtg caatancctt ctgtatacct ttgggaatac 480  
 tgacaaanaa taatgaattt taaattttta aaaatctaca tttccgactg ccactccaaa 540  
 aaantttccc tccgaatcct aactgt 566

<210> 9522

<211> 574

<212> DNA

<213> Homo sapiens

<400> 9522

gaaggagaaa ggctttaata atattaataa taggcaaggt aatgcttttc atagtatagt 60  
 aagatttgcc taataccatc ttatttcttt gattaaaagt tacttagctt cagcatgcgt 120  
 gtacattcaa aatacaaaat taaagcatga gttgtcatta atttgcagaa ttctatgatt 180  
 gaagcctcta aatgaattgt gcagganagg gagtttghta acaactgact acagacattc 240  
 acattgggtc atctttaaaa agctggactc tgcttttgga tgcttctcgg aggcgagttg 300  
 gattttggac tgaagtactg tcgttccatt cttttttttg aggtgttatg antggggcta 360  
 taacatcgcc atcctgcggc ttggtgaaat ttctgtctgc acaccactga aacaaaatat 420  
 tgtcttgagg catacaaaact ctttctgtcc accttcttac aatatactcg aatcanctgc 480  
 tctgcaaatt tctctggcan aanttgtgaa acctggtttt aagtaatcct gatgctctgt 540  
 tgggggcagt cttncataaa accaacttna tcat 574

<210> 9523

<211> 558

<212> DNA

<213> Homo sapiens

<400> 9523

ccctgaaata gaaatttaat atttgacaa aaaactgtaa acttttggtt acattcaaaa 60  
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atattactat gatgttttaa aaacatgata attctaaca gtttgtttct cttactctga 180  
catttactac caggaggaaa aaaatggctt cctgcaattg acagtctggg taaaggaatt 240  
gctcaggtgg acaatccgac cctgacttcc accttgactg cgttccacaa tcacacaagg 300  
tatctgtact agctggaaag gactcttccc gtctctcaat gcctgagtaa ggtttaanat 360  
ctgacccctc atcacagaca tctgactttc aaaagtggct ttgtcaaate ctttgtcagt 420  
cttaaaaaant tcataaaaaat cttncataa atcttgccca aatttcatnt caaaaatata 480  
tggtaaaatc aaatttctta tttctncnaa aaaggggaact ttggcttgaa gaanccaccc 540  
ccnttnaaat gaatttnc 558

<210> 9524

<211> 594

<212> DNA

<213> Homo sapiens

<400> 9524

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taactgaagg aaaaaatgga taatttacta atcatgaatt ttgtcgacaa acttcccata 120  
aaggagaaca agtgagattt taataggaag ataaaagact ctgccagaag tatttttttt 180  
tttttttttt gagacanant ctggatctgt caccaggct ggagtgcagt ggancgatct 240  
cggttcactg caagctccac ctcccagggt cacaccattc tcctgcctca gcctcccgag 300  
tancgtgggac tacaggtgcc caccaccacg cccagctaatt tttgtgtatt tttagtaaaa 360  
atgggggttc acggtgttng ccangacggt ctcnacttcc tgacctcgtg atccgcccgc 420  
cttgggctcc ccaaagtctg ccanaantnt tctttactgg cttgaacttt gtcccccaat 480  
acnttaatat ntttatgtta caaatnccc gacagttaaa aatntttttt tccctctgaa 540  
taaactgaac ttttcttaat actgaaaaat ttgaaattnc ttgaatattt aaaa 594

<210> 9525

<211> 445

<212> DNA

<213> Homo sapiens

<400> 9525

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ggcttttaaat aaagcgttta ttgattagta naagcatgaa cagtgtgcat aatattttca 60
atacaatatac agggagggat gatgggaacc cctccttcac tcaggacact tcccctccgc 120
anacctgcac gttctgggcc tttctcattt caccaccaggc ctgccaccc catgaggcac 180
cccctaaatc tcatctctcc acccagcacc ccagcctgg ctccagcctg aaaacccctc 240
cttccccttc cctccaaaac agtggggaaa gcgangctcg gtccaccctt aactgcggaa 300
agancanggc cangaaggca cantgctccc tctcccggtc ctggcccaac cactccttgg 360
gtnaattggg cggaaccac tgggctcaca ccaacttttc acctccctct ctccnnnaaa 420
ggatggcncc cccctnangg gatgg 445

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<210> 9526

<211> 392

<212> DNA

<213> Homo sapiens

<400> 9526

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aaacctgctt aactttattg gaactagctc agttgattac agaatggggt cacaatcatt 60
aggggaccac atacatttta aaccaaaggc gattcttctc tagccatctg ccaaccccag 120
ctatccattt tacaacaca tgccattaat cacaaggag gccanaagga ggtttcatgg 180
ctccatgtaa cccatcgttg ctactggaaa aaaataaaca aactcccagc acttgtccta 240
ctgatgatgg atggcacttg gaaaacatat ttccaaaaat cntggcaggc tgaaattgg 300
ggccattaac cccccactga atacctnccc ttgaaaaaat tttccantaa naatgccnc 360
ttttaattt acttntnccc tatnccctt aa 392

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<210> 9527

<211> 417

<212> DNA

<213> Homo sapiens

<400> 9527

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gtcaaaacaa ggatctgctg gtgatgcttc acagtgaac ctccattacc actgagaatg 60
tcacttgga aacattctta anaaatgagt ctctttctca taggctcaat ttcaggattc 120
tcaaactcaa tgttctgctc agaagtttcc atgatgaanc ctatttgtct ctgaggctgg 180
ggctctgcct ttanacttat tctgctccag tcataggttg tggttgtctt tgttcttgg 240
cagaacctgc aagtanactt catgaantgt nctgangaac tggaatcatt ctttattaaa 300
tgtattaatg tttcccgga ccgaaaactt gctgaanaat aatggaaagg cttectctna 360
cttctggng ttccantatt tnaagaaaa aggggaactg gcttcnctc aaggccc 417
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<210> 9528

<211> 390

<212> DNA

<213> Homo sapiens

<400> 9528

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attgtggtaa taaacacatg acataaagtt taccatcttc accatttttc agcgtatagt 60
tcagtagtat taagtatatt cacactgttc ttgcaaaac taaaactcat ttccattccc 120
ctccccaggc ccctggtaac caacattcta ctttgtttcc ataaatgtga ctactttaga 180
gacctcatag aagtggaaac accccatatt tgtcttctta tggntgactt atttactta 240
gcataatgtc ctcaagggtc ntccatgctg cttccctgat ttgattcta gagctcttat 300
ttcctactac ttcccctaata gaaatgtact ttaattnggg ctatttncct tangnttttt 360
tnaaaggtat tttttcnggg gngaaatcct 390
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<210> 9529

<211> 327

<212> DNA

<213> Homo sapiens

<400> 9529

aagggtaaac aagctttatc ccacataaat ggcaatgcag atataataag caaatgatat 60  
 antaagcaag ttgcaatggg aagggganaa aggaaaanaa atatatgttt ttataactccc 120  
 cagactatgg aggattcncc accagactgg gaagcaacag caacagcctg ggctcganan 180  
 tcggacactg cactcaccaa actatggcgg attcaccncc agactaggaa acaacggcct 240  
 gggctccaaa ntcggccact cgtccgtgca canacaaaga naggtctcnt gaagcttcng 300  
 cacaatctag gaccnancct cttttgt 327

<210> 9530

<211> 528

<212> DNA

<213> Homo sapiens

<400> 9530

cttaaaagat actttttttg ttcaattcct ttgtaaaaac attggtcacc atttaacata 60  
 catggcaaca aaatgcaccc aatttacatg catcaacaag ttaataaatc ataatacatg 120  
 gacaacacaa atttaaacaa acaggactaa agtagctcat gttgcattta actatgggtc 180  
 ttgtgctcct aatagagaag tagctaatat gagaaacaaa cagttccagt ttcaacctaa 240  
 attaaagtta tttgtggcaa gtaacatgaa acaatgatca tatgaagtca ttatcttaaa 300  
 aagaaccatt cttcagaaat cactttgtgg caaagcacca tactagggtg gactatgatc 360  
 ttaaacadat accttcagtt aaagacaaat ggtctccatt ttttgaaaat tacctgaatg 420  
 attccaattt ttattatgcc ataaatttta tctttccatg ttnaaggtat ttttttgacn 480  
 cctnaattat tccngaaaaa ttcnatttaa ccattantcc cngggacc 528

<210> 9531

<211> 602

<212> DNA

<213> Homo sapiens

<400> 9531

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cgttcttttg tttatcaagt tttaatgaaa ggatacaact gatgctactt tacaacatga 60
taaacatttg caatgtccca aattactact attgttacga gaataanatt gctcaggttg 120
ctaaaaggaa tttttaaagt atttcctctt ttggttgatg tagtacctga tcagagttct 180
aaactaccgc ctaccaaatt tttctttgaa aaatctacct ttatatgtga aattaatata 240
cacatatatt ttaggtaaca gtaatttaca ggtttcttta ttaaattagg atctttgcat 300
taagcccaac tcatcactga tcaacatatt tcatgctgat aagcatttag caaaatttga 360
gactgatatt caataatatg tattaatatca gataatctga atgctaaaat agtttggccc 420
ccggaattat agttantttt aaatgaaaaa aaccctttt atccggccca ttggcaattt 480
taattttacc nggcanaatn ccccccnaaa ttttttatgg gtctttaaaa aacaccggcc 540
tcccccttc ctgatttccc aatttttaac ccttnttgg gnaaangaaa anaaccctt 600
gg 602

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<210> 9532

<211> 485

<212> DNA

<213> Homo sapiens

<400> 9532

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gagttttcaa acaatttatt tcacaggana agtgganaag gcaatcttct tencacaagt 60
tttataaccc attaaaacag tatctttcta atccccctcag antgggaaaa caggtaattc 120
tcaacctggg agacaagctc tgaagtnacag anctatcacc tgctgcagga ngtgtgaaag 180
ctcattctta aagttttctc acgtttatth tccattttct tagcacagaa tgttctttcc 240
agcaaggtec attagagag accgaaatat gaatatggct gcattggatt ccagaggagg 300
acttgatcaa atacacagaa atagtggctt caatgatcaa gttatthtgc ttctgggtcaa 360
gtcggatata agtctgagtt ttcttttcaa agctccctta tgctgagagg aantntgaac 420
anaatccnac tgccgtcttc acacaantgc cgaactcctt tccccnaaaa actcctttna 480
atccc 485

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<210> 9533

<211> 516

<212> DNA

<213> Homo sapiens

<400> 9533

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aaaatttcaa atatatttta ttcaaaattc nccatttang anaaaagana tataacaatg   60
tttacacatg cttaaataac ttatttcact gtacaactta cattctgtat aacagtacaa  120
taaaccagcc aaagaaaata accagttagc acttaaataa gaatctacca tgtaaaaaaac  180
acagtatggg aactacaag gtagtattta tatatttttt aaatgactga gctacagtac  240
aacagtcatc tagttcagt gttgtctaaa acatcaagct gtccacatct ttctgattca  300
tgatgggaaa gctattatga cctttcacat tcgaacatgt cattttgttg tgtaaatttg  360
gtgggtgggg ggcagaaagg ctctattacc tttatccctt tcttataaat atattttccc  420
ntttatatta ctccnnaat tttaaataaa atatttaatt gtgtttgggt tacnaccaag  480
ttcacattgt gttnaaaata tattaacct tntttt                               516

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<210> 9534

<211> 472

<212> DNA

<213> Homo sapiens

<400> 9534

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aaccttatcc aacttcagta ttattttagt agtaatgtgt ataaaatcca accactgctt   60
gggtgacctt aggagacagc aagcctaaga gatgaaaaca ttacacctt ttaattaaat  120
tacactgtca ccacataaaa gtgtgagggt caacatttgt tttcttaaaa acagagcact  180
aaacagttta acacaggacc taacttacgg ctaagatgtt tctaaaatgt atgcagaacc  240
cttaagacta tactgcatca agtagttctt ttgaattatg tntactcaa tgatggtgtt  300
ataatttaca ttgaaatgcc ncaacaaant cttgataaaa cnagatatng ggagaaataa  360

```

aaattat tttt ctgaacccaaa tgtgttctac cttaccctan aattaaatcn ctgggaaata 420  
cgggcaaaaa acaaactccg cntgtgaaaa caatnggctt ntcccnctg ga 472

<210> 9535

<211> 488

<212> DNA

<213> Homo sapiens

<400> 9535

cctcaaattt tat tttttatt gaaaaaaaaat ttcctattgt aagttttggc aaggtattta 60  
tttggcta at caggcanaaa ggaaattacc cttcaaaaana cnattttctt taaaaattat 120  
gcactcctgt acaatctttc tttttatcca aaaaagggtc tcatattatc tctatgacct 180  
catctcctga aattacatta aaatgtttat tacaanac tttgtaaaaa caaatgtaca 240  
accttatgga tatgttcatg caagggtgaca aaaatatatg caaaagggtc ttcactcttg 300  
ctttctttgt aataaanaag tgaaaataat cttgtagtcc attcaacagg ggactaatc 360  
aataagttaa agtatactcc tacaatgat tatgcagtaa tttataaaaa aatgaaggta 420  
aatctattta aacncttatg gaaaggtnic tattantatt tantaaaatg acaaaaantc 480  
cccncccn 488

<210> 9536

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9536

gtgggtggta ttttgttttt aatctccata gtgtatttgt taagtttatt tataagcaga 60  
tcacttcact atttacagta catgagcata gagattctac agtttctgtg atgtaaacia 120  
taaccccaca gtgggagttt gagaaaagaa gccagttctg aagtatttac agacattaaa 180  
atagaacttt atactcacag aataataata catagagcaa tttgggttaa ttatctagga 240

aactatagaa tctgacaatg tacaaataca agaaaacatt ttctcattta gaaggtaaga 300  
 cagagaaatc acaccagaaa taaaataggg acgatgacna ccacaataat taaaagcaaa 360  
 gaaggttcct ccttgccctc tacggataaa gtatttatat aaataaggac acaaccaaac 420  
 aaaatggaaa aaatatataa aaatcctcta ccaatnaaaa aaaatagcna aactaaaact 480  
 ngatcnnnat cattacnat 499

<210> 9537

<211> 548

<212> DNA

<213> Homo sapiens

<400> 9537

gagataattg aaaagtttta ttataaaca cataagcaaa aaattcaatg cagtgggggc 60  
 agaagtgtgt ggatgacctg ccaaacaata agtattcaaa ntgttgantg agggangtga 120  
 ggttgcaact atctttctct agaaaagaan agaactgggt attcatcaaa ttggttaaatt 180  
 tgaggttcgt caaaaagttt ctacagatac agctgaatat actaacatt gctctattat 240  
 ctgttgaatt gctgtatttc actttttcag catttgggga tcattattta attgaatttg 300  
 taaanacga ttttccanac aggtctctgt tcttccatga acaaatgata agaaacaatt 360  
 tgactcctta tatgacaatg gaattaaata aattgacact cntctaggaa taattctcca 420  
 tcntctccat ctctaaaatt accccctgcc aacaaanaat tgatctttct tccccaaaac 480  
 cccttggtta nannatcttg tgactcngaa tgccaaaata attaattgaa cctncagggg 540  
 anatttct 548

<210> 9538

<211> 580

<212> DNA

<213> Homo sapiens

<400> 9538

ggatgcatgc tgggggagga aagcatattg tttgtagtca ccctggcgtg ctaaggtata 60  
 ttattcccca gtaattctct caaggtgggc atatgcaaaa cataatctct aaattcttca 120  
 atactaagaa atacctttgt tttgccccta aaatcaaagc ccattttggc tggatatagg 180  
 attctaggat taaagccttt ttccagcaga actttgaana cattgctcca tttacttcta 240  
 gcatccagtg tgtccagtga taagtctgct gtcaacctga ttcttgttcc ttggtaggta 300  
 atttctcttc tctctctaaa ancccttatt attttctctt tatcactana attccaaaat 360  
 ttcaccaana tgtntctaag aatcatctct ttcatcaat ttactaagt actcnacaan 420  
 cactgacaat ctccanantt gaacctttct ttantttctgc caagtttctt ccattaattc 480  
 cttaaataatg ttctctgccc aatctcataa ctccnctttt ccggaatccn aaccaaacaa 540  
 atttgcaatt cnaaattctc cccaaatccc ttggccttcn 580

<210> 9539

<211> 572

<212> DNA

<213> Homo sapiens

<400> 9539

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 agctctgttt tccaggattt gtttcaatat ttagagctcc tttatcagt tcttgtagt 120  
 gtggcttggg gtgaattatc ttggcatttg ttgtctgaa gatnactgta tctttccttc 180  
 aaatatgatg cttagtttcg ctgtatacaa aattcttggc tgataattgt tttgtttgag 240  
 ggggctgaan atagggcccc aattctgtct taactttagg ggtttctgct ganaaatctg 300  
 ctgttaatct gatanathtt tctttgtaa gttacctggg gcttctgtct cacagctctt 360  
 aaaatggttt cttttggata acctgatgac agtgtacctt agtgaanac ttttgggtgan 420  
 gaatttcccg ggtgatcttt gtgcctcctg tatttggatg tctaagtctc taacaaggcc 480  
 agggaanttt cccccattat ccccccata tntttccag ccttaaaatc nctcctcccc 540  
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<210> 9540

<211> 383

<212> DNA

<213> Homo sapiens

<400> 9540

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gcaagttttt tgacttttat taaatcttta caaaacagaa tacaaaattc cggcattgac   60
agttggtgtn aaggaaaact tctgancctc gtcagttcac ctggtacatt ggaattaaag  120
tgcttgatg tttttccccc actttaaaaa aacttttgag gttttttttt ttttttgtct  180
tttaaaaaca tcgtaacatt aacacatggc cgttcaccgt cccccaacga tggganctgg  240
cctggggccc anggtcctcc angatcttca ctcattcaca gtaacggttc tgaccaatcc  300
tccaagtccc acgtggatgc nacaagggtg gggaaggga gaaaaaattn ctttccccct  360
tcnnaaaaaa aaaaaaaaaan cnn                                           383
    
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<210> 9541

<211> 509

<212> DNA

<213> Homo sapiens

<400> 9541

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cattcggctg ccgaaaagga ataaattact tcttccana atgctccgat cagttacgtg   60
ccggacgttc taactgtacg cacttcctat ttacatatct ccgcccactc ccttcgccca  120
ggcacctacc gtagtaacca aaatagaagc gataccaagt atcttacggt ctgcaggact  180
anaaaacagc gttgtttttt ttttattcag tagttcagcc atctcaattg tcccctaaaa  240
ctgtatataa gtcttaatgt tactacaaaa catattttat tacaagcac taaatacaat  300
gcggataatc ccagactcaa gacgtnatta ttccaacaca taccctccag canaancagt  360
ttccgagggg aaaaccgaan cctatgcctt ccttcttcca agaaatacaa acggnccctg  420
cccctgtngg cttcgtcctt angttcccgt catgaangta atcaaaangg ttcttttcca  480
cccaaaaacg ggacaaataa anccnttca                                           509
    
```

<210> 9542

<211> 461

<212> DNA

<213> Homo sapiens

<400> 9542

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ccaggttttc aagccttttt tttattanaa agcttaaatt attagctttt tttttaaaag   60
ggantagcca atatccattt ttgagtttnc tcaaacaaat aataaggata gcaaactagg   120
ataagaaaac acattagaan acagccttct acttcgtaca acttctagtt acccttttcct   180
atccattcac ctacttctgt tcagcagcaa naaaaaaaaat ccatttattt ttgccttttt   240
ggatttttcc aaaataaaact tcatttacct gaatacaaac aaaagctagg gagatggctt   300
ttatnttggc ataaaccaag gacatntctc acaaaccagg aaaaccctgc ctcgtatggc   360
ttattttgca gtttggagtc caatggttat aaaaccaant gaaantccaa caatntccca   420
aatgacnaga attgacnnnn attatgggaa accctgaatc c                               461
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<210> 9543

<211> 540

<212> DNA

<213> Homo sapiens

<400> 9543

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ggggtctcan ttcactcttt ccttgtttat taaatatcaa cttttcctgc ctaatgggct   60
gaggttcatt ttccatttcc tcagggttaag ggtngactac ctangaactt attgcatctt   120
taggccagct ggcttantgc tacccatctg aacccccana ttactacca agtcttcctt   180
ttgccccctc ctgccctaac agcaagtnc aggccagtcc cttccccanc aaatgccagg   240
ggcttcatgt naaaaagaac tggccacaan gctgaaaggg aagaagaaaa actgtttctg   300
cangaaaaga naacaatgcc tccaagctct tgggcatctt cccatttttc taaataaaga   360
naaactcaac tctggaacct ctggtngcaa aaaaaagaa gccgggaatt tggcctgggc   420
ttcaaatacc ctgttctgga tggattcccc aatnanaaaa gncaggttcc tgggaactgn   480
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aatccccag ggccattncc aaccctttcc cttaaaaggn gnggcatgcc cattcctctt 540

<210> 9544

<211> 533

<212> DNA

<213> Homo sapiens

<400> 9544

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 ttttggtttc aaaactgggt ctacaatcca taaaaatgac attaatggan atcttaaaaa 120  
 caatctgatt ataccagcag ttggttaaca tatcggtana actgttctgt aaatgcttca 180  
 ggggaaaatt tttccttcac tctggctctt ccagccaggc ccatggtggc ttttaaggaa 240  
 ngttcacgga tgaacttttc tattgcttct ganaagtgca ccgggtcagg ctcacacana 300  
 aaccctgtga cactgtgggc aatggactcc aagggtccac ccgaattaac agcaatgact 360  
 gggcactgca tgtacatggc ttccanangg acaatgccaa agtgctcatt gcttggtgtg 420  
 ttaacacaca ctttcactgt tggaagaang aaaatttcct tttttctaaa aaaaaccccn 480  
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<210> 9545

<211> 500

<212> DNA

<213> Homo sapiens

<400> 9545

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 aaaaaaagga acagctcaaa aaacccttga aaaagggtgag ggtctggaag actcctgtgg 180  
 tgcangccat ctcccggata nantgcatgg ccagttgggg gctgcctaaa tccancaccc 240  
 gcagccccag ccgaaaaacc aaaataagtc cnatgggtgt tccacagggg gtgtcnttcc 300

ggaccatgaa atcctgcagg gggaccttga ctttgttggc cacctctcgg atcanggcct 360  
 ctgacaccgc gtttgaaaca taacgttgct tgctgttccc ttgatcaccg ggcccttggt 420  
 gaataaaagg ccgtnggttc ccnctncct gtccnnttt tttgggaatc cccaccttgg 480  
 gccctttntc cccntttttt 500

<210> 9546

<211> 585

<212> DNA

<213> Homo sapiens

<400> 9546

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 aaccatcaac aacatgatca gggtttcatt gccccagatg ttatttcatt ggtacattat 120  
 attgatattt acaaaggntt tcaaattcaa caacacaaaa caaaacagct taatttttaa 180  
 aaactacaat gctttaaaaa aatgtaaaca gtttaatttt tacattattg taaaaaagaa 240  
 gactcactcc ttaatgtggc ttaatttttt ttttaagttag caaagcctgg tgctcntgga 300  
 taaagaatga aaataattct ttacatagaa acattgtgct ccagtgtggc aaagaaaaaa 360  
 aaattatatg tncacatatn aagaaaagaa tcttaagccc ncaatttaga cccaaaaaaa 420  
 tcttgtcccn aattgagaat ttataaaaac catttacata tggttgttga actactggaa 480  
 acctatntac cntttccaaa caatacccct ccaaaaaacc ctttttttta aaattaaatt 540  
 ttgtgccaaa aaaantgntt tancctaaaa canacatccc ccctt 585

<210> 9547

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9547

ggttgttttt attttttttt tcattaaagt ccattgatca tcacaaaaac ccangaaatg 60



caactaagga naaaacaaac gtccaaccaa gatctaagaa accagancta tggagganac 120  
 gttgcactgg actgctgggt atgcacaang gggcaggagg ggcgatcccc atggggcatg 180  
 gccactggcc atgggaaaca caggagggag gccaggcanc tggctgggcg gttatnttaa 240  
 ccgctgcacg atgacagcat tgancaggtt ggcttccttc agggctctggc tctcatcanc 300  
 cagctctttg ttcgggaaag tattcatgaa gataaaactg gtggcaccat ggctggccgg 360  
 gcatccacca taaaaaatcc gatgtcncgt atcctgcang aattggggaa accgtnaaca 420  
 atgccatcct ctgctgtcca tacctgccc tgtngaaaac taacacctcc ccaatcccct 480  
 tcctgacttt ctccccnaaa caccaaaact cccccngcc tttggacaat tccctccctn 540  
 ccaaaatcct cccttttttt ccctttccct gaaanaacc ncccccc 588

<210> 9548

<211> 366

<212> DNA

<213> Homo sapiens

<400> 9548

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 gtaaangang tcttggtttg agagaaacaa ggattgggaa aaaaagcctg tttttccag 120  
 tcctagttaa acgggagana aagaangtgt cagaagtga gcaaaagtca nataccaggg 180  
 tccccactta attttttagcc cttggtcacc acagcccaaa aggttggtgg ggagttgctt 240  
 tanaaacacc cacatggcca cggggaancc cancaacact ggggctgggtg gaatncctcc 300  
 gcaaaccngg gaaaaagtcn cccttggtt gaacttatcc tgctgtttnn aaagctgtga 360  
 tgggac 366

<210> 9549

<211> 584

<212> DNA

<213> Homo sapiens

<400> 9549

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agatggagtc tccctctgtc acccaggctg gaggcagtg gcatgatctt ggctcactgc 60
aacctctatc tccctgggtc aagtgattct gcctcagcct cctgagtagc tgggactaca 120
gatgtgtgcc accacaccca gctaattttt atatttttag taaanacagg gttttacat 180
attggccagg ctagtctcga actcttgacc tcaaatgac caccgcctt ggcttccaa 240
agtgttggga ttacatgcgt aagccaccac aatcagctga gttctggctc ttagtattac 300
tctagttatg tctctagata ggctatggcc tggaanattt taaaatttca aattggactt 360
attaaaataa aattataaac aatatttcna agttttattg atttaaaatt acttcnttac 420
tactatttaa aaataatctt aacaacaaaa atattaatcc cggcgtcttt ttctaccctt 480
atcataaatc cctaattggg aaaccataat atatangtct tactgggac nccaataaat 540
taatccttna aagttctgaa tttccccnt ttaccaatc cccc 584

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<210> 9550

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9550

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acagaaggga gggagattta atgttgtcca tagaaagaca ttaaattgtca gactgacaat 60
ttagttatgg ttacaaaccg gaaaaccatg ccatttggag taatggaatt tgaagttact 120
anaaaacgac aacagatttt tgatacagaa tgacaaggct tatctataac acgtcaacgt 180
tttcgacgac tctgaaattt ataaatagct ggggagttca ccgtttcttt cttcaccttc 240
actttctgag ttttatccat aagatctttg cgtgtttgaa ttttctgagc aataacgaac 300
aatttcttct ctcgttcaat ccgctgtgtc aggcagttat actgcttttg cttttcttta 360
gctattcnct taagttccag tctgattggg aactcctttc cttttcttc tgccaaggct 420
tctatcctgg gcctattaaa aacnctgtca actaactccg gggctgnttg caggtnattt 480
gcaanatcaa actgttcacc tnccttttng gtgtcaaaaa aanacatgc ttgttccttt 540
gtccccctga aatcccccaa atganccng aattttatcc ttccaatttc c 591

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<210> 9551

<211> 596

<212> DNA

<213> Homo sapiens

<400> 9551

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agacctgtac agtttttatt acataaaata tcacaaaatt cacaagtaca acactgctta   60
ttttcttgct tgaagatcag atctctgggt tattttaanat caacattcac cacagctgaa  120
ggaaattaaa ctgaaccttt aaaaggtacc gcatacggac ctgggtgggg ttatatacaa  180
tatattcatt gtagttgang gtataacat ctggattcag aattcctgtg tcacttgctg   240
gtcctaattg cactgtactc ccattcctgc caaatggaaa aaaaatgtgt caacatcagt   300
ctctggttca gaactgcaat aaaaaacgta tcttatctgg gccaaaagaa ttctctantc   360
ctcctggttc tgaattactt acagggtgac aaantgggca aaactgggaa ccatcttgcc   420
cnccccctgg gtgctatttt tccctgaaac caaccctccg gccttaggaa tgggccncta   480
ntttttcatt acnctgnacc taaaactacc cctgataaaa caaccatcct nttttctttt   540
gcaaaaaagc aaaccattaa ttngccnctt ggaaaaaatt tntcccaatt taatcn      596

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<210> 9552

<211> 520

<212> DNA

<213> Homo sapiens

<400> 9552

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aactgggaga natctgaaca tggttaaatg cagataaaag agaaagatca gttgagggan   60
gtgacttang tatgagtgtg agggataact attggtatgt gtccaaaaga atgctgctct  120
tttcagaact acaaattgtc gaaaggggca tctatagctg ctaccgacca aagtaggaaa  180
ttttagagca cagtttctct aggaaatacc atcaactaac cctccacaaa tagctgagat  240
tgacagcttt accatggttt atttcacagt agaaaaataa ggtttgagcc gggcgtggtg  300
gtgtgcacct gcagctccan ctactcanga ggctgaggca ggaanattcc ttgagcccca  360

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cagtttgagg ctgcagtgag ctgtgatcat accactgcac tcctgcctgg gtgaccagtg 420  
agaccttgct tcaatgtggt gactcctgct tgtntgttat tcncncnctt ttaaggncc 480  
aagaagatag atccttcct ccggaattcc anantaaccc 520

<210> 9553

<211> 587

<212> DNA

<213> Homo sapiens

<400> 9553

atgaagatat tttcctttta tttatcaaac atttcacatt catgaagtca tttacttcag 60  
agcaaagtgn agcttataat attaaaaatt aaagtattac aatatttaca anatgggttg 120  
caggggacac ttactagtat aaaaataata caaatattgt atttcctct tatctgccag 180  
taaaaatggc aaacagtttt gtctttctga agtttctagt caataaccaa agatgaggag 240  
cccctaataa agtgccttgc cctgtatgct ccactgtcta tagctttaga ccctcaacat 300  
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tgtagctttt cttctccact cttcgttcct tgcgctcttc ttttatagct tgctttcttg 420  
ctcttttata ttctttgctt tcatttttaa aaacgtggct gaattganac ttttaagaaaa 480  
tactggcca ttaacntccg ttatcctttc agttggcttg ggngnantcc tttcttttgt 540  
aaaaaattga aaagtttcct gtttaaaaaa aattcaaatt gtttggg 587

<210> 9554

<211> 587

<212> DNA

<213> Homo sapiens

<400> 9554

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tgggctctgt ggggttcccc acgctcacgg ntcctttctc ccacactcac tgcccttctt 120

cccacagcaa atctatttca aggacagtac tttttaaaat gattaatggt gagttctcaa 180  
 ctagctctgc anaactanag gancgtgttg catctgtctg tgcggatgga gtttctttta 240  
 tctgacacca ggtctccaac cacactgaaa caaggcattt atctacagan ctcaactana 300  
 accccttttc attaggctac tccacttcct tccccata cctacccac atcagccacg 360  
 tggttaanaa ggatagtcag gaatgttttt accaactcca agccctaatt catactcctc 420  
 catatctccc accccaccct ttcaacccca cccccacccc cagaatttca ttgatatttc 480  
 tccaactgt tatttgaaa aaaagttaa caaaaagtt ccangtcttt gtgccaacca 540  
 aagggggccc ttttttggga naccacang naaaggntnt tcccccc 587

<210> 9555

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9555

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 tcgtgatcca cttgcctcgg ctttccaaag tgctgggatt acaggcgtga gccaccgtgc 180  
 ccggccccct ttttatcttt gaanataaaa aataacttct tattttctaa ttctganaat 240  
 gatttaagtt cactttctaa cctatccggg gctgttttag ttattttga acttccagga 300  
 aatctgcttt cgaacccaaa ttttattaag tgtnactact cggacagcct gccaatcata 360  
 tcacaggata tccaattgg aaagctattg ggaatgttcc ttcctcccn aagtanaaat 420  
 caagttataa acgggcaaaa tttcctattc cnaagggcgn atttaattatt tcaattccct 480  
 tccctcccc cttanaaaaa tnttaaaaag aaaaaattnt cccctgctcc aattttaacc 540  
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<210> 9556

<211> 442

<212> DNA

<213> Homo sapiens

<400> 9556

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ttagctgagt aaaaagctct tttctaccct acaataagct cgacattaaa gactgacatt 180
ccaattaata taattaaccc tggacttata naactgtttt ctcataataa tgcacatcta 240
ctgntaaatg actactcnca aagttgtttt ctttttcatg ttcaaanaaa attacatttc 300
tttcctttca cttttccaat aaaatactct tcagttctac tctanaatct cttaggaaat 360
tntttgaaat anaaatcaat ttaagcccta taactanaan ctttttctct tgttgancgt 420
ctttgcaggg anaaaatggc tt 442
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<210> 9557

<211> 606

<212> DNA

<213> Homo sapiens

<400> 9557

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gaacagaact gccagctcga ataagatgca acgttaggac tctgccttca gtttctttgc 180
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aatcnccttc ccatacttca caaaagcaca tatgggcttg tttctatgca aaaaacaaca 480
aataactcca tattctggca aggggatgca nccgtgttcc catcccatcg ggttattctt 540
tgggaaatna ccnngggttt tttttttaat cccccccctc cgaaaaaagt ggaattnaat 600
tttccg 606
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<210> 9558

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9558

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agaggtgtca tgtttacttt ttatttagga gtacaaactg agacaaaatc atccttccag   60
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ggtcttgaga aaaggacagg acccgcagat agcganagat cagaggaggc cctaatttct  180
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ctccaactct cantctcaan caaccncct acttcagtgt cctgaattan ctggaatata  420
ggcatgcccc ccacacttgg ctcatTTTTA aaaaatttct ttttnaaaca ngatnttgct  480
acattgcccc agncttgaat ttentgggtg cattcccanc tcccncagg ctcaaaatcc  540
ttggtcccaa acaatc

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556

<210> 9559

<211> 520

<212> DNA

<213> Homo sapiens

<400> 9559

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gttttcttat tcttttcttt atttgtttaa accatagaga tacaggtgac agtttaccac   60
tgaagttctc aatccttaaa ttacattat tttagacata ggagaatagc ttacattctt  120
agagtaaata gtattctgag gctacagcct atgtgcatat gtttatatat gtatttgttt  180
tagaanagct gactattatt ccttgattaa ttttattttg aaagttagtg ctccagctat  240
gctagtttat gtcccagggt atttgggaca ccacacctca aggatatttt tgaataattt  300

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tgagattctc aaccactatg agttgataag ggatctagac ttctcagaga catgaaatta 360  
 gaaaatgtga ttttaaaatg atacttaatg aaaacataca gttcagaaac actgaaataa 420  
 tactatttta nttttaaacc ccaaatacatg cattcatgaa aactttgggt tttacnttca 480  
 atgccctgt nnttcanaat naaaaaactg aaggccnaaa 520

<210> 9560

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9560

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 aattttaaat aattttattg ttactaaaat ttgatataac cttaatgac tttcagcaca 180  
 ttatcaaatt atttagccat cctaaaatac ttgatgaata aattaataga agttaatgtt 240  
 tctagtttgc ctcacttttc tggaattatt cttattttgc agattagtct tgccaactac 300  
 cgatgccaca gaatttaatt accaattgca aagccatttt catagtcata attatattct 360  
 aggcaatatt ttttggtcag gttctcctcc agtctgcagt caatgtcctc tgcatcacta 420  
 caaaatgatg gggaacattt tttccagggt cgtctccaat gttcnaaaa acttcttcac 480  
 agatctgtgt ctcacaacna actgctttgt nnaacatctc caaggantga anccgtggtt 540  
 gcaaaaacttt tttggccatc tggccatccc tggtaatatt gttccan 588

<210> 9561

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9561

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taacagaatt cgtttcgtga attaatgcag tctgtagtaa gcatatcata tagcagtatt 120  
atccagttaa agaaagatac agttgaaaaa cattacgttt taattctcca tgagtaaagt 180  
gataagtaac tataaaatca ttattgggag aacatggaaa cagtcaagca taacgaactt 240  
acagaaagat aattatctcc aaatttagga agtacatgta cctgcctacc cacctcttca 300  
agcctatgct taccacacgt gcaaaaatac aatacaatac aactactgca attattacta 360  
tcattttctt ttgcccttag gtgaaaaaca cctgacagct acatgctgag ccatgctaac 420  
aaaactaaac ctttcacitt ctttaatagt aaaattacca ttactgaatc nttgtcctaa 480  
aaagtgttc cagttcttac cncttatitt aaataaacnc cattttgaaa catcnncttg 540  
aaaancgcct aatttttttt taaccccgat acttccattt tccccngg 589

<210> 9562

<211> 456

<212> DNA

<213> Homo sapiens

<400> 9562

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atgcctgggt aatttttgta tatctgtatt tcttgagag gcggagtctc accatgttgc 180  
ccagactggt cttgaactcc tgggtcaag aaattctcct tccttacctt cccaaagtgt 240  
tgggattaca ggcgtgagcc actgtgcctc gtttattcat ttttcaatt tgacttaagt 300  
aaggaccatt tctctgacta atatgtattt aattttggaa gttaaaaaat ttingagcta 360  
aaagtatgat ctgaaagacc gaaacanatg ctcttttacc gataaagatg gatcnaatgg 420  
tttangaac taaattacct acnggtncag ntctng 456

<210> 9563

<211> 427

<212> DNA

<213> Homo sapiens

<400> 9563

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ctttaagaa aaattgantt tattaacaac aaaagttagg ggtggggaaa aaacaaatna 60
aanggtcaca aacagaacac taaaaaatgc ttgtctgctc acaataatgg tgtctgaaac 120
cagccctgaa tgccctggga ntcantcact gtcactatca gcttcactgg aatcagaact 180
gcagcttcac tgccatcctc ctgggccgan tgctcgctgc cactggggga aaggactggc 240
gtcgcggctg tggctccggc tccgctggcc accccattg ctgccgtgt ctgaatcatt 300
gtcactgcc a ccttgggcct gtcctctgtc ctcatcatca naatcngcat cgtcctcaaa 360
atcancatca ctgccaaaan atntcctctt tgtcncgggc aaccggggcc tcatectcnc 420
tgctctc 427
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<210> 9564

<211> 590

<212> DNA

<213> Homo sapiens

<400> 9564

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atcccaanat ccaccttctg ccgtggctgc cacagtccag gctgagcttt tcctcctgag 120
ccacacacgt gtgttcccgt ccancctaaa ngggaaaagt gtgggggtggc ggggcgggga 180
agcaccttgt gctgtggcac tggacacggt gctcatctgc aggatggcca cgaanacaaa 240
cggcacagac gaanacaaca caagacacac aagcctggtc ttccatcctc aggactaaaa 300
ctgcgctgag agcaattcac ataatctctg agaaacggct tccttacttg tgcgcagcgt 360
gagccggtac atctgggctt gcaggttcgg ctcactgtca tggatgaatga ttaagctgat 420
ggcctcgaaa agcacggcat tcttcgcgtt ggagtgtctg acccttctcn acttgggcgg 480
ttcttgggct ttgttcagga tggctccaa gcactcatca ggcggtccc ctgcaaggct 540
tggggtttgt tacactcccc atccccatt tgnaaaanac cncggaaccg 590
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<210> 9565

<211> 595

<212> DNA

<213> Homo sapiens

<400> 9565

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agaaaagcta atttaaaata tttagaaata gctagcctat gtacagcaag ttttcatgtc   60
tttttttaaat aaatagattt ctaggagtca gtatatattt aatactcttc ttccttaaga  120
aaatagaagt ttaggtcaag tgtaagctt taccactttg acactgtcct tatctcacia  180
tgagggaatt tagaaaggac cttaacagtt tcacaaacat aaataaagcc ttagtcacac  240
taaattaaaa aaaaaaaaaat tccttaggga tatcttanat tagtaaagtg acttcctcat  300
ataaatagtt tgaaagggtta cttagttttt tcacccaaat tgtgatatac aaaaagggtta  360
ttaccaagca acctacatgt caagaaagcc ccanttaggg aaggagccac agcatttata  420
ttgtttataa tttctttggt acccccactg tttaaancac aggttgaaca ccatgttcat  480
ctaancctta ttanttaaaa aatntntntt ggcaaggcaa ataactattt taaaaaacat  540
taanttcccc atttggttaa atnccgtttt aaaataacct ctataccact ataaa      595

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<210> 9566

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9566

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aagagacagt gtcttgctct gcctcctagg caggagtgcg gtctcacgat aacagttcac   60
tgcagcctcc atctcctggg ctcaagcaat ccaccacact cggcctccca cgtagctggg  120
gtacaggca cgcataacca tgcctggctc ttgtcagtat gaatccctgc tgtgtcccca  180
gcatctanag canagcctgg cacatggcag gccatcttt gtggagtga cttgggaacag  240
gancgtggg atggtggagt gttctaagt agacagccac agtgcccgtc ctgtttgtc  300
ctctcgcccg aactgccact ttcantgtca ggactgggga aaaacatagg caaaaaggcc  360
tgaaatccaa gggaccccan gctgccact gccaccgcc caccatcacc tggcccacac  420

```

tcananggtc tcccacctcg gcctggccan cgcacaaaag cctcccacct cggcctggcc 480  
 aancccccaa agctccccct cggcctggcc cnnnccccaa aaggcccccn cctccgcntg 540  
 cc 542

<210> 9567

<211> 382

<212> DNA

<213> Homo sapiens

<400> 9567

caggattcag actttcgtgt ttctctccaa atctgaagtt tacaaaagta gccgagctgc 60  
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 tgagcaanaa agtctctgga tticaggaga aggaaaacag ccccnagggc agganaaaca 180  
 cttgtgaagg gtccattgaa aanacanana gggggcagct ctggcctctc tgctgccact 240  
 tccctcattc gatgcacagc ggtggggctc acaccatttt ccactcance tcttccgcac 300  
 aacctgcaca tctatcgttt cttcaggggc tgganctggt tccaccatgc ctanccnaaa 360  
 tcanganggg gtcctggggc cn 382

<210> 9568

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9568

caatcanaaa aggtttttatt ataanaaaca atgacatcag gtaaaaatgc aaaaaattgt 60  
 gcaattatgg caaatgtttt aaaaatatct acacatttgc cccacagga ctacagtact 120  
 tactacatac ctgagcactg aacattgaat tccattttta actgctttac atagggaatc 180  
 tgattccttc atgatcacat ccatttggtc tcatgaccaa taaaatcagc ttgatgctta 240  
 agcatcaact ttgttgaaca gaaaacaaag atggaaaata aagaatacaa tttctacttt 300

cctataacat anttataccc antccagttt tcaatgtgtg acaaatatat aggaaaagtg 360  
 ctncatacat tcttcaaatg caaaaacaaa nttaaagtgg aactggcatt attttnaanc 420  
 tacattttaa ttccgtttta ccnttgtgcc ttttacttaa ngggtctgcc ccnctatgaa 480  
 aatgccccctt aaatntctaa attataaccc ccccttttcc tantcctact tttcnangga 540  
 cccctcngaa acc 553

<210> 9569

<211> 353

<212> DNA

<213> Homo sapiens

<400> 9569

cttttttgcc ctcatttttag ttagttgaag tttcttgtgg ctctgtagtg actgctctga 60  
 tagaatatcc cttacaactt tgtggcagtt aatttctgga tgatcactgt gacttccatt 120  
 tacatgtatt tggcaagatt ttagagtatt ttcttttaac ggactgggtt caatctttat 180  
 tctggaagct tcaccgtatt tttcctgatt ttctataaac cttatttcac ctgtacngag 240  
 aggctctcca aagccagtaa cttctcctgg actccttggg ntctctaaat tttctntaca 300  
 acaatcagtt tttttaattt cacaaggncg gcganttcta nttcatnnt tgg 353

<210> 9570

<211> 566

<212> DNA

<213> Homo sapiens

<400> 9570

acacattaaa tgtaccacag tttaatagtt ttgtgatagt tcaataactg tcatttgctt 60  
 taatctacag aatttttaaaa aatctaaata aaactattac gctggccaga taaaatagta 120  
 acaaaaaaag taaagagata taaaacaaac tgtacactat tacaaagtag tggttctctg 180  
 tatgtctatg tgtatatatg tatatataaa actatacaga tacatgtgtg tatataaaca 240

tacatatgta tatatacaca catatactta attttaaagt taatcaaag gttatcaaaa 300  
 attaatatac aacaaagatt cctgggaagg taatgcttat ataaaataag gccatgtttc 360  
 taaaaatccc tcaaatacagt ccaagataag atttttaatg aaaaacataa aaggttaaag 420  
 aaatccttct ctccaagtta gccggttttc cccactgtt ttcctcctgc cttttcccgg 480  
 tgggtggcca aataaacctc ctgtgacct naaaggcnc ccnccttna aatggccncc 540  
 ccccttatga aaaaatcnac ccccaa 566

<210> 9571

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9571

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 tcacaagttt tacatgaata ttctaatac aaagtctcct gaaacaacat acttttgata 120  
 tgattttcat ttttaaaggg atgcaaacat tccattttct catttataat ctattccaag 180  
 gcaaagtatt ttaataatgt atcctttctg cagttagatc acaattcaca agtataactg 240  
 aaacagacaa aaccttgtca gcaaaggtta aaagtccttt tttctttaaa aaaaaaaaaa 300  
 aaagggaggt naataaccag cccttatgtg ttttcagaat tttgtactac actgacatga 360  
 tttgcagtca ggtttttctt cctaccctt aaggntacaa aattctgttg caaatgcntt 420  
 gcaaaanaat ctanaacact taatgccaaa atcaaaaaat atttccata aaaantaatt 480  
 ttataaatgg ttagaaacan ttctgtggtt aacnacnaat tgaaatttnc cccattact 540  
 aaaccaatcc tntttccca aaacaaggaa aanaggtttc cattccacaa nctttaccgg 600  
 ttan 604

<210> 9572

<211> 495

<212> DNA

<213> Homo sapiens

<400> 9572

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ctattaatag gatttttatt tagatccaaa aatttgagat ttacaacttt ttgaaganca 60
acatggggtn ctttaataag cctgttatcg taaaaagana tgctttctaa gttttccagt 120
ccaaccaagg cgttatctgg tatttctgtg aggtttatac cagctataac caggctgcga 180
agattgataa gaggcctaaa gttcatgtct ttgattctga taattggatt ttccccaatc 240
atcagaatct ctagatttgg aagagcatca aaccacttac tgttgatcat ctgcaatcta 300
tttgaattga gatgaagtcg aagaanatta tgtnggccaa taaaggctcc aggtgaaatt 360
gtagaaagca agttgtgatt aatataaaat tcttgtaagt tgctcattcg gacanacntt 420
ttccaggcag ttcantaagt ttggtttccn ctaggtncnc aaaaaggaac cgaagctcct 480
ttttacntta atatt 495
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<210> 9573

<211> 529

<212> DNA

<213> Homo sapiens

<400> 9573

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aggtttaata attatittaa ttacaaatth ccaccaattc ttgccagtca tattattgtg 60
gatatcacia atgaattata taatagtata ttacctata ttcatctgca tgaaacttag 120
gagaaaggag agcagaaatg tataagtttc tgagaatgac accataaagc tcatatttac 180
agtatggtag tctgtaaaca tacaggcctg ccagttaaag cccactcttc tatcatcacc 240
cagctgcatg accctgagca agtcactttt gtttgcta attttaatat atctatcacc 300
tgacttctct atctacgana gttactggc tgcatgcaaa ataccatgaa aaataccatg 360
cacttttaag tgtgaantac cctggtaaag tgacttatat attactggct tcctatthtt 420
agagtattaa tattcatacn tcagttaaaa ntccacatgt gttggctaan tgatcctthn 480
gaaaggatcc tttaaaantt cctaggctca nctccctgaa caaccggtg 529
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<210> 9574

<211> 495

<212> DNA

<213> Homo sapiens

<400> 9574

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acttgcaaat caataat ttt aattttctca ctctgataaa aatcagaaag caacatttat 60
aaaattgcta ccacatcact ttcatagca gggaaccgaa atctgtacat ctcatttttg 120
cagaaaagta ggcaggcaga aagaattata cataaaagtt tccaaaagga aaaacaaaga 180
aatatttaaat ctgatctctt ttcttttaaa aaattaattc agtanacttc tattttttcc 240
tgtgtaacat gggaattcct ggctctaaaa tggatgaatt ttcagtgtca gtgtaaaaac 300
atcttgttac ttcttttaaa ataaaaactg cagcgtggaa attaatgggtg tattacgcat 360
ttaaactccn aataggccgg gaactggaac caagtgttaa gcaatttgct taattattga 420
cttnccgtaa naaaantcta ggggaagggg gaaanaaatt nctttaacct cncctncaaa 480
atttctccgt tcatt 495
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<210> 9575

<211> 370

<212> DNA

<213> Homo sapiens

<400> 9575

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gcaggtagct taccacagtg agctctggag tcaggctctc tgggtttaaa ttccagctcc 60
accatttaac tgtgtatcct tagatcatca ccccatacct caatttcctc ttttgaaaga 120
gcagttcagt aaaagagttg ttacgagaat aagagtttat aaatgtgctt ggtatataag 180
aagtatttaag caaatatcac catcagcagc agaacacaga atctggtaga gaacaacagt 240
ctataaaatg aatctaggag gatctcagtc tcatcctctt ggaaactccc tcatcttttt 300
tattttat ttagacnggg tctcgctctg tcaccagctg gaatgcaatg gcatnatnnc 360
nggtcantgn 370
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<210> 9576

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9576

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aagttaatta cagcatttga ggaagaggat ctaattccac acaaaatgga agactctaaa   60
atgtacccat taaactgcta aaaaataaat tgagtgggtga gaataccaca taagcccagt  120
ttagattctg agtgctgtca ccctgtgatt acaattatac agactcttcc aagcttatag  180
ctagagctcc tggaagctat tttatacctg atgcaaggac aaaaaaacca caactcagga  240
aggaattaag tcttgaatta ttggcttcat cacatccacc ctctccaccc caaaacagca  300
caaaagaaac agtgaccaca ccctgtagat ctttttgtgt aaaagaggta atgaagacct  360
gggatgggaa caagtcatga agatctgtct ttaaaagggtc ctttcaggt aaatttgtac  420
acaccatcaa gcaacaagcc tctcatcagt tanggttagg aaaccaaggt tcaattctca  480
ggaaatcaca atttentttn tttactccat ataatttaca aggtgcctat atttatccnc  540
ttccccttgc agccctttct taataaaaaa aaaccggctc cctnccgggg gcnccaattn  600
ccca                                                                    604

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<210> 9577

<211> 539

<212> DNA

<213> Homo sapiens

<400> 9577

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ggcatcctca accaaatgtt ttgaatttat tataatcgtg cttctctaca actaatgatt   60
cttgtggttt gcaaaccatg tctgccttta tttacctaca caaacacgga acagaatttc  120
caataggaga ggttcacaca gctaacaaag catanantgt gtgacctcaa taaggnattc  180
aacaanaca cacgccgtat ttccctctga ctgcgttccc ttaggatgct ctgatgttgg  240
cgtcgcattc ttctaaaagt agaatcaaat cttcaatcag gctgtgttct ctgccaatgt  300

```

tcactctcat aatatcaaaa gccagtctca gattcttcat tgcttgggga aacatgcctt 360  
 gatgtntgc agtttgccaa ctttcatcac ttgaaacccc tctgacggga tggcttcctg 420  
 ggaaaaaaat cctgtttggc tccatgggtcc gagtaccata aaanaaggct cctccacang 480  
 ccnaaggtn atncaggcat ccatggggcc attcaaacac cttcctngt aaattttta 539

<210> 9578

<211> 520

<212> DNA

<213> Homo sapiens

<400> 9578

gaattcaatg tatttacatc aaaaaattag gtagtcattt tacatttaag gaataaaaac 60  
 cttaaaaaaa acaatacaaa gagtgaaagg attttaacca agtttacatt tcttttngct 120  
 ataattttta acaacaattc gtctcatcat aacttaatgc aatgtgcaaa tgcagcaccc 180  
 attacaatca ttaaactaaa ttaaggaag tacattgtta atagtgaccc ncggaggaaa 240  
 tggatttcac ttctattaaa aactctatgg tatataagca ttacataata atgctactta 300  
 accacctttt gtctcaanaa ttatcaccaa agttttctgg aaataagtcc cataagaatt 360  
 aaatatttaa aaggtgaaat gttccttatt ttaacttttag caanatcttt tctttttcat 420  
 taanaaacac ttaataaatt ttaaagcaaa agctgttana atctaaatag ctaaaactgt 480  
 tcnccgaatt caancttaca aanaaatctt ttgttannta 520

<210> 9579

<211> 437

<212> DNA

<213> Homo sapiens

<400> 9579

gactagctta ttttcttttt aattgaaccc aaaagaagct tctagtatgg agcaagtctg 60  
 gtggaaaagc agcatatctc ccagganana anggaaacgg agcagggcca atcatcaggt 120

gacagtgcag tgctactcat caccatcatg aaaaactcat gagcgtcnga cgcgccacag 180  
 ggattcctga tcaggaata tctgctatta ttatgacaag ctccatanaa aaatgtntac 240  
 agcagggcag aaagacatta ttctttataa ataaaagggtt catctgtgca atattcacat 300  
 tagaaaaata tacattgctt gccataaacc ttctctggat aaaatcanac aaatctagga 360  
 tctgactccn cttcncgtg aaggctctgg ctccnccgtg acaaacgact ccncancttc 420  
 taaangaact ccttcta. 437

<210> 9580

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9580

cacacaatat ctcatTTaat ctttaaatca gctttatcca acataaacta ttaccctgat 60  
 ttccagatgc aggaaactga ggnataaaaa cgtaaagtaa cttgtatgaa gtcaactggc 120  
 tcttgaatga anaaattggg gcttgtaagc agtctgtcta aatccaaagc tctatgacct 180  
 cattatttca ttttaacttt aaatagtaaa acaaaataac actaattagc atctgatagc 240  
 ctttaaaaat agaacacgga ataattcatt ttaataactg tacattttta agaattatat 300  
 actgaaatag ttaacgtact agttgccatt ctttcatttc attaaaagaa atctcttcct 360  
 ctatttgcca tttcattaac ctactctagt tactctggat agttaacat aaaatttaac 420  
 ttttaataaa aataagtcn taatccgaat atcctctact ccancccaat ttctgaangg 480  
 ttaatatntt ttaataaaaa gcaattatcc cggttacttg tcgggaatgt ntttccccn 540  
 cncctttcnc tccccctcc ac 562

<210> 9581

<211> 488

<212> DNA

<213> Homo sapiens

<400> 9581

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ctatgaacta gttttatttg catttaacat gattatacac attcatgtgt ctaacaagat   60
ctgcactggt acattaaaaa tacagtacaa taacattcna catgaggtac ttentattta  120
tgtatTTTTn ccentntaaa taatgctgta agctactaaa ttcnagcaca ctgatgcaca  180
agtgactaca gtgtcttgaa ttagctgagc ttatttaaac accttaataa aaaaaaaagt  240
tcagtgaat aattatgtan aaattagacc atttacttaa atactatTTT aggatatgct  300
taaagaatgt cacattagaa ctgctagcct aattcccttt atccccngaa gtgaacaacg  360
acaaagactg ccngccagat acgttgggga aaancatcta cagtgtntnc tgcttaataa  420
agttgtgttt ataaaataaa tttgcctgct ttgttaaaac aatggttnc anttttaaaa  480
nctacnaa                                     488

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<210> 9582

<211> 577

<212> DNA

<213> Homo sapiens

<400> 9582

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attatcttaa aaaatggctt tatttacagt catggaaaat gctcnagaaa atacctaaag   60
tnagaatacn aaaataatct atattaacaa gtttgcttct tgtacctgct actaagtcag  120
tcattaaact cactgcaggt gttggaacca ccatatattg ttagaacttc cataagaatc  180
aaaggagatt atggcataat ctaagaagaa aatgatctgg ctaatgtcca ctgtaaacct  240
tagctacagg cttttatttt tacaaagaca aaaggttttc ccttaagttg attcaaagcc  300
ttgaagtagg ccacttaata ncagactgct gactgtcaca ggggtgtatat ggatgcagaa  360
tgttcatcag aaacttgagg tggttaccac caccttataa acatttaata attaaggtcc  420
ataaattcng ctctcctaag tggnaagaa ttaggtctta cttgttaaaa aaaaaaaact  480
cttccaacaa ngtgatgcct angtnctgaa cngaatencc aaaatccctt cctttccctt  540
ccttttaaaa tctttccggg cncacttttc tntttcc                                     577

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<210> 9583

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9583

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aaagcacggt gcttgacaat actatattga atgcaataaa agttggattt cattcatatg   60
tacaacaaac tactttcttc ttcacttcaa gattcggtac aactgttcct gaattccaac  120
tctccataca tcccaatgtc agggtccttg tagctcggan cccttatcca ggtanatgaa  180
ctgctgcccc gtgaacacta tgncaaaagc aatttganca ccattctctt ttctggcagt  240
gaggtaaaat caggtctttt tggaagggga naanccacat tgcattctctg ctacacacaa  300
nattactctg tcattgccit tgaatctttc acgtccctt cttctgaanc atcagttttt  360
atggaaactt atcacacctg tcttgtgggn ncatcttgnt ccateccctcc tctcttccta  420
ttgtccgttt tccggtattg aattaggga aattttcagg tntcccgtn ttcccgaaag  480
aagggtgttt ttctttcnaa aaaaagaaaa gtnggggnct ctgaaaaatn atcctcctgg  540
cttnggggaa caaaacccaa aggaattn                                     568

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<210> 9584

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9584

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gacattttta acactttaat tacttaaaca acaagaaaag aaacatttat aaagcatata   60
ccaaggctgt ctcaggtttt aggatgtgga gaagccaatg gtaggctgga tactctctgg  120
ctacttaaag ccttaccat ttaanaacat ttgtgggata ccactgacta tggatcatggt  180
actcctttgc ttaagangag tgcaagatca ttcaganaac acaganaagc atgctccact  240
tactccancg tggacactgg ttttgaacct tggttttgaa aaacacatct ctttgcctng  300
cataactccc tgcagtcnaa acatnancce cctgcctcaa aagcttttaa tgccccaatc  360
tattatccac tgcttctgan gtccgcagcc tcacctgaaa ntctgtgtcc ctaattctct  420

```

gggaccaggt ccatggggaa gaaaaattcc ccttctctcc cncctggcat gaaagggtgct 480  
acancncng catcntgaag gttccccccc ggtagaacc anccanaatt 530

<210> 9585

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9585

gttgctgttg tttttttttt aaataaacat catcatctat gtgtaatcaa attcccatat 60  
tttcttccta taaagaattt gctttagttt ttcaataagg catttttttg tcatccaaac 120  
atctcttcct tttaaaattt tcttagagtt aaaaccataa ataagaggat ttaaaccact 180  
aaaatgacac gtgccaacat cttcattcag ccagacctgg taaattctat caaaactaga 240  
cagttaaata agaaccacgt tataaaaata ttagccaaaa aaagactatt agataattct 300  
gcaaactcaa atatgaaact gtactaaaca aaatatgtgc aaaggtacac aagcataaan 360  
ccacgttggg ggttatgctc anattaattt taaagctcgc tctagtggat ttaattcaag 420  
aattgtccac ggtggtggtg tttactttga actcccncca ntcaagaaa aataaaatat 480  
gcnaaccac ttccccaaa agttcttatg gaaccgggcc tcacntgttc acaccagaa 540  
ngcctggggt ttnccaaggn cngggggtgg gaaagaaaaa aaaaggccct n 591

<210> 9586

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9586

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caacctccgc ctccagggtt catgccattc tctgcctca gcctccanag tagctgggac 120  
tacaagcgcc cgccacatg cctacctaatt tttttgtatt tttagtaaan gtggggttta 180

actgtgttgg ccaggatggt cttgctctcc tgacctgtga tctgcccgcc tcagcctcct 240  
 gaagtgttgg gattataggc gtgagccacc gcacccagcc ttacgagttc tttgtatatt 300  
 ttggataaca acagtttatc aactatgtct tttgcagata ttttcttgca tccttggctt 360  
 gtcttctcat tctgttaaca gggctcttca cagaacagaa cttttaaaat tttaatgaaa 420  
 tcccagctta tcaattatct atttcatggg ttgtgccttt ggtgtttcat gtaaaaaant 480  
 ctccaccata actaataccc aatacccaat gtccacanat ttccccttgt tgtctcccag 540  
 gattctatna ttgtccctta cnttgggcca taaccctttg aattnatt 588

<210> 9587

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9587

gagacggagt ctcactttgc ttccaaggt ggantgcggt ggtgtgatct cggctcactg 60  
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 tacaggcaac tgctactgcg cccagctaatt ttttgtatct ttagtaaana tgggggtttca 180  
 ccatcttggc caagctgggc ttgaactcct gacctcaggt gatccactgg cctcggcctc 240  
 ccaaagtgtc gggattacag gcgtgagcca cagcgccctgt ccaatcacag gattttaaat 300  
 tgtataatca gagtccaagt ctctggttgg ttgtttttat gcagattgtt tgaactgagt 360  
 ctcagtttac atctaagtga anccagtact tgcctgattg tatanggtan cantatgcaa 420  
 actaaatctt ggaattgtca gtaatgaaca ttatttaaca cacanggan tgatattggg 480  
 tatatttttt atgtctcccc ttgttcctta acttattccc catgccnaac ttaagttttac 540  
 antaggtnc ccaataatat gttgaatatt cccccggaa tttagang 588

<210> 9588

<211> 430

<212> DNA

<213> Homo sapiens

<400> 9588

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gtccgggtct acacacagtg actttattac tctatggatg ctggtgaact gccctcccca 60
accagcttca cgggggcagg catctctgtc catcccatgc ctttgggtca cagggggcag 120
caagaccaag aanaccacag ccaggccctg ggttcagctt canaaccatc acccgctgcc 180
tcccccaacc cccaatctcc tgagggganga naattcctag ggacaanacc canaccctt 240
tccttcagcc tctgcttcac caagggggcc tggcctgcgc ccaaactcct cctggcctgc 300
ccctcaaggg tccaagttct cactctgtc ttcaggcang aaaaaggcag ggaaaaaaga 360
attgaagaan gaaaaaggaa gcttggcccc angaaaaaaa aaaaggggga aaagaanaaa 420
tttnnnaaaa 430
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<210> 9589

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9589

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ccattcctca cagcacattt atttcagtaa ttctgttatg tcggttctta gcatgagcat 60
agtgttacac gattttcgta catataatca catccaaaac aagttctaaa atttaaattg 120
taaacattct catatgtana aatattttaa ttgggtgtatt aagttttgct aactgatcaa 180
atttgaaga taatataaat ganaacgtct attctaaact gtgtagttag cattgtttat 240
taattacatt tctacaatgt taaataaagt aagaggcaaa cctgtcctgt aagcatgtca 300
aattttaggt aaaacattaa aaagaaacaa acctgttaac aaaagaatgt cttgcaataa 360
agaacattag atttttaaaa tctattatga taaaaaatg taaagggtaa atagcatctt 420
tgttgacaaa gtaggaagta catggatgcc cactttattg tctganaaat gcactggaat 480
taanaanatt ccctanccca aataattccc naactatgtt catatttctt ttaaaaaaac 540
ctgttttaac naatncccc c 561
```

<210> 9590



<211> 489

<212> DNA

<213> Homo sapiens

<400> 9590

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gaacaaaata aagcttttatt tgaactccct cccctacaga tcattcaaga tgcccgggac   60
catgtccagg ttcctctcag caacatggaa agctaagcca tttcaciaac gcacaactgt  120
agctacacta cagcccccca tgcccagggc acagctttgt tgctaagcct gtaacaaaag  180
accaccactc agtattttgtg taccctgcag ccaacaccac ctcttgggct tcacagggtc  240
actcacccaa gaggccagca caaccacgac cgagtgggta ctcagtggcc cagacacccc  300
ccgaacactg gcactgccac aaggccctga agggtagact gtggggcaaa gaggacaaac  360
tctccctccc ctaagggacc cggtcactg ggcctccttc ccctgccaac cgccagcccc  420
tgcatgccta gcagggaggt aagcaccac tggcgtcgtg atttcnanta tcttgctaata  480
ntnannacn                                     489

```

<210> 9591

<211> 431

<212> DNA

<213> Homo sapiens

<400> 9591

```

gaaantatgg ggggtgggtgg cttttgggaa ggaaaaacgg ggggaattga aaaacttctc   60
aagtgtccac tctgtttttg anacagtaat taagattcan aaagctcctt attaatagct  120
cataatttgg gggggcactt canggactcc aattacaaag ttcaaaataa atcactgcac  180
gtcccctccc ccctcccca aaaaaagaaa aaaggactaa ttttagataa cagaaatcat  240
tctacaaaga actggattat gagggggcaa gggantaata nccaccangt tataaggaac  300
cctaaaacat cacanaaaan ttcactgact tangangccc aaaatgcaag ctccagtaac  360
aacataaagc tgctcaaagc ctttctgaaa ncataaacac tgttgtcttc antgggggtn  420
tnggggggnt g                                     431

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<210> 9592

<211> 534

<212> DNA

<213> Homo sapiens

<400> 9592

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cttttttgta nagacggggt ttcaccatgt tgtccaagct ggtctcaaac tcctggactc   60
aagcgatccc cctccttgga ctcccaaagt gctgggatta cagatgtgag ccaccgcgcc  120
cggtctaaac attttttggt gttgctctcc ggctttccct aaatataaga taaaatgtaa  180
tttatttgca gatataaaat ataaagccca gctcagggcc atacgccact ttcccangg  240
gagcangagc tcgggctctg gctggggaga ataacttana tccgtgcaat aaataaacag  300
tggggagggg cagtgtggac agtggtgggg gagggactga nactgggctt cccacgagaa  360
tgacaatcaa aggcaggggt canccccac cccacagtgg acactgacag gggttgaggt  420
gggaccttct tcttangacc cactccanac tgtantanga ctgcaggtct gtctccttgt  480
ctccctattt gccacacaat ccatgggccc ctttctctna ntgggcance cccg      534

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<210> 9593

<211> 493

<212> DNA

<213> Homo sapiens

<400> 9593

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acatgcacac atatTTTTat ttaacttang ncctgattat tagtatataa aacagaaaaa   60
ccaagtgcct tggtaatTTa catatcttct ccaaatcttt aaagaaccaa gctctaaaaa  120
acacacgtaa agatattTTa gtcntaaaac acacacacac acacacacac acacacacac  180
acactcaaac tTTaatgacc ttcaggaacc ataatccaat aatatattta ataggttaaga  240
tctcattcat caatatacaa aaaaaaaaaa acaaaccaga aaacaaaaaa ctaactttga  300
ttaanacatg tgcccttagt aagggcactt acaattagaa aggtttatcg gtagcacttt  360

```

gaggtagcat attttgtaaa gtccagggct gctctgcagt ttctcctgga taaaaangta 420  
gaaggcatca cccttgcccc ggaaaaagaa aattnaantt tctgttctcc ntggccnttn 480  
ttncctgaaa acc 493

<210> 9594

<211> 518

<212> DNA

<213> Homo sapiens

<400> 9594

aaaatttact gtttatttct ttgttacaca aagggtggcc aagacatctt agtccatctc 60  
ctatgtcctt ttggccataa ttacacacac aataatggca agctagatta ggagtctagc 120  
tcagggtcaa gtttttccac tttaatgact atctctggag ctaaagcggc agcaccagct 180  
tgttggttct ctgcctctga ctccgacaac acttcttctt ttatttttac aggcttatta 240  
ctggcctcct cctcttcac tgaaaantca tganctccc attcatcacc tatgtccatt 300  
tcaaatactc tcnatgaaa aanaattgan ctttacacnc agganacttt tcgaaaacca 360  
ttcccagcaa catactgtgc tttcatactt tccantaatc tccattgctt ctccaaatgc 420  
atggtacggg tgggaataca ctacctttc nctaccctt ttaaanaatt ccngtgnaat 480  
gaantcccc aaatctccct gttttttcta aaaanaaa 518

<210> 9595

<211> 496

<212> DNA

<213> Homo sapiens

<400> 9595

aaaatgtcaa taacaagttt tatttacaaa gtaatcgctc tctcacatca catttggggt 60  
tacatgtntc actgttgtac gctggtagca tggctatttg aaaaattata atttatganc 120  
tattactcag tgggattttt gcaataaggt acttcatgaa acaaaatgga aaaaggaaaa 180

ttaaattaaa atgcncaact aatattttatc tactacagac ataatatttc tcagttgtga 240  
 actaattact atgcttggaa aatgctanca tccnctaaa tattttgggt ctattgggat 300  
 acaaaatctg atttncnaa ctttgcaaag gcacattttg gctgggcaca atggctcaag 360  
 gctgtnttcc caacactttg ggaagcaaaa gcgggcggat catnaaggtc cggaaatcaa 420  
 aaacntcccg gctacacnat aaancntct ttctaaaaat accaaaaaat taccctgcct 480  
 tgttgcngga acctnt 496

<210> 9596

<211> 547

<212> DNA

<213> Homo sapiens

<400> 9596

gatggctcaa tgtttctggg atataaactc atcaggcatg ggaaggattt ccaaattttg 60  
 gcaatacact caagttatgg tataaaaata acattttgtt ttctctcttt ttctctattt 120  
 tanacctaan anttttttgt tataaaacac cccagttaag aaatattgaa acataagana 180  
 cttgaccatc aaggagagaaa agaanccaag agtgaaaaat gctatgaaag taactccaaa 240  
 cctgggcggg gcgggaggta tgangaataa ggagaaaagg aggcatnntt gnaaaggcca 300  
 ggggcctgtc ntctcancag ctccgaaact tgtcntgttt gaaagtgcaa atgtctatgg 360  
 atttgacca tcttgagggt gtgatctttt aaaaagctcc tgaatganga aatccattcc 420  
 ttcnatgca aaataactgg ctttctggct ggaagtttgt ttggtctggg gtnttctccc 480  
 catctnctcc tctcccaccc caccnttcc caaaaaaagt ncaaanggtt cnttcccnc 540  
 ttccct 547

<210> 9597

<211> 571

<212> DNA

<213> Homo sapiens

<400> 9597

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aaaacatact agtttttatt gcatttttagg gattatagat tattgaaaat tatttaggac   60
acggaaaata tctaaaacat gaaacctttc ttaacaaaag catcatagtc tattttgggtg  120
tgactgttca ttacctacag accccaaata gttcttcctc ttttgaaggt tacacttgta  180
aatctacact cttgggttcaa tttatcactg tccaaataag gtgganaagc tgttcaaact  240
gatccacaga atgcagtatg cctgggaanag gcaaaacaag tattttcaag acataacagg  300
ccattacatc ttaatatgct gccccaaatt caaatatatt gttgacaata acaaatacag  360
atgaagacat tttgtgtnaa gctcaaacct ttagcatcta acaagtgcac tctagttcca  420
gcatctatga aaanatnact cctccattaa caaatacaca tgagttantg cccncccccc  480
cgcttcataa aancctctctg gaactgttat taccttatgc caatcttgga aaaactgctc  540
cncntctcat tantccacca nctccagctc c                                     571

```

<210> 9598

<211> 518

<212> DNA

<213> Homo sapiens

<400> 9598

```

gaaatggggt ctgttgccca ngctggaatg caatgggtgca atctcagctc actgcaacct   60
ccgcctcctg ggttcaagtg antatcctgc ctcagcctcc cgaatagctg ggattacagg  120
cgccagccac catgcccggg taattttcat gttttcagtg gaaanagggt ttcaccatgt  180
tggtcaggat ggtccccaac tcctgacctc aggtgatcca cccgcctcgg cctcccaaan  240
tgctgggatt atangtgtna nccacctgtg ctggcctatt gataattttt aataaggttt  300
cacccaaagg gtggtcanaa aattanaaac cccctttctc tgggctgaac ctggaaaatg  360
ggccataact gccaccatgt natatcctag caaccctgaa tcccttccta atttancaac  420
acttcanctc ctaactgcat aactcttaat aattnaaaca gttgggttgt gccanctccc  480
nctctggtgg tgananggct gaaatctaata gaactgna                                     518

```

<210> 9599

<211> 567

<212> DNA

<213> Homo sapiens

<400> 9599

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ctctttattg actgttttat taagcatgcc cctctgctcc actcanaact gaggagtcta 60
caaaaactgt gggcaatcca anaaggntgg ttattttcct gctttctgcc aacccaaagc 120
aaactgctct gccatgtctg tttgtatttc ctgaatcctg agccctcaaa acactgcttt 180
atgaagtcaa caatgccaaa actgaaattt gcatttctat tctaanatat agctgacaaa 240
atgtcctttt ctctgcatc ctctcanaaa acacttaata acatctaagt ttattttcta 300
aggatcaana aaacaaagtt ttctcatgaa ttgctgaatg atantttttc ttgccaaggg 360
ctaaaaattc aggatacccc cnaatcaa atttcctaaaa caaaatatat tacaggtgat 420
ttgctgcaat catgaaacac anccttcga aanttcatat tccatcta atngttcgaaa 480
catctaaaat gaatccattt cnttacaaaa agttgggtgt gcaatccctt ccaaaaaaac 540
caattnttaa aaaatcctta antttat 567

```

<210> 9600

<211> 476

<212> DNA

<213> Homo sapiens

<400> 9600

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ggagcttgga agtcatttaa tctggaaaca ttattcaata tatatgctta aatcacaaac 60
aacagttcac aagtgtatat atattgtttc ctggataaca caccgaagag tcaaaagtga 120
taagaagcac atttagagca ataccctag aattaaatt aattctagaa caatgccaaa 180
ganccaaaat tatattactg tgcttaacaa tgcaaaaagt gtaggttttc tccattcagt 240
tgggcattga ttatatatta cccatatagt atttcaatca gaatcaaat tticanatgc 300
attaccacta ataacgggaa aagttcttaa acctgttcc cctccgntc taagttggta 360
caaatgttct ttcatgttgc tgaaaaata tgggaaattc ncccttctat gccangntac 420

```

tgcaattact gctgatggct tatctgatcc tccnccaagg ntgttaataa tganna 476

<210> 9601

<211> 584

<212> DNA

<213> Homo sapiens

<400> 9601

ccagtttcaa agaaatttaa ttattattta cacagttaag gaacaggtga tacattttca 60  
 ttgttagaa actgatcttt ctgtaataaa atanatttc aattcagtgt atgtcattat 120  
 tactgctaag gaaatcttag cccttgctg ccttaaagga atctttattt aatttactgt 180  
 aattattgct gtgtagtcac tacttttggt aatttctcaa atcacttaa tgatgggtctt 240  
 gtttccact tagtaggtat acanancctt gacgttccta ttatttccta tataaganaa 300  
 atttaaaaca ttttttggtt tttctgtctt aggggaataa aaaaacacta accacacatt 360  
 tggttaaact gcttaggaga agacataata aagatcccca atctatactt aacagccata 420  
 aacctgagtt acaggctcag ttactccaaa taaataattc ttataggtac ttaattaatt 480  
 aggctgggt atctaaataa caaaataatn tccccaataa ataaaaagaa ggggccccat 540  
 acctgtttg ccctttggtg acacctaagg acctgccatt cctc 584

<210> 9602

<211> 482

<212> DNA

<213> Homo sapiens

<400> 9602

gtggtgtctc tgccaggttt tggatcagg atgatgctgg cctcataaag tgagttanaa 60  
 angaccctc tttttctatt gtttgaata ntttcagaan gaatggtacc agctcctctt 120  
 tgtacctgtg gcanaatttg gctgtgaatc catctggtcc tgggcttttt ttggttggtg 180  
 ggctattaat tactgcctca atttcagaaa aatatggaat gcttcacgaa tttgtgtgtc 240

atcctcgac aggggtcatg ctaatcttct ctataagggtt ccaatttttag tgtatgtgct 300  
 gctgaagtga gcacgggtct ataattttta aacgcggggc ttgtgctgca aggggtgggtg 360  
 tcagggtcca ccaagcagtt tcatcanggc ttaaacttcc cnnccccnaa atnaaaaacc 420  
 aaaatnaaat gccctactta aaaatactta cttaattata ccttaaaaat taaacactta 480  
 nc 482

<210> 9603

<211> 594

<212> DNA

<213> Homo sapiens

<400> 9603

cttttttgtt tcttgttttg aattttaaaa agcggtttca gctattggga acctgaggtt 60  
 gattancctt gangcttcgg anggtcttc ttgctgctgc agatttggca atcctgtaac 120  
 ttcgaccaac acctttaaat tcccccttc ctactacttc cacagtgact ctgaccttcc 180  
 cgtcgttaagt tctctcagcc gggctaaatt tggcagtttc tggttccatt tcaagcaatt 240  
 ctcgcacagg ggaacgggggt acatttgcag aaaacttttc tattagtggc cgcatcatgg 300  
 gatantacac ctgccanact gtctccagt acatcccact atccatgtaa atggcaccag 360  
 caagcgactc aaaaatatcc cccatggcct ttggaacttc aatatacctt tctttctctt 420  
 catcctctc anatctccta agctcagaat ccattccttg catttcattc ttctcaagct 480  
 gaaatgcacn aaatctccat gacttggan aactcaggaa aaaaaacttt gaattattgt 540  
 tgtatcgact ttacnccacc nanccaaaan tgttttttta cagggncaaa cccg 594

<210> 9604

<211> 409

<212> DNA

<213> Homo sapiens

<400> 9604



aaacagggtc ttggcctgtc acccagaatg gagtgcggtg gcatgatcac gatcatggtt 60  
 cactacagcc ttgatcttct gggctcagct atcctccac ctcagcctct caagtagctg 120  
 ggactacggt gcatgccacc acaccttgct aatttctgta tttttttag ggacagagtt 180  
 tggccatggt acccaggctg gtctccaatg cctgggctca agcaatcctc caccttggcc 240  
 tctcaaaatg ctggaattac aggcatgagc cacagtgtct gactacaaat tgtaatactt 300  
 taaaaattct ctcaatatta gagtaaagtc actcaatcat gattaataaa tgagtnaanc 360  
 cacacctaaa caatgtatga tctnagaact cntttingtng ganaaaatc 409

<210> 9605

<211> 593

<212> DNA

<213> Homo sapiens

<400> 9605

aagactaact gctttatact agcatttaat gattcatatt tttatatacc atagctggta 60  
 aatacaagct acgtacttta tttggtgagc tactaaacta taatctgttc caactctaga 120  
 gggaaaactg gttatgttgg agttatagag aagtgggtgca aaggcaccat cctaaaggaa 180  
 tttcaacatt ccctttataa tctatgactt ttgctttatc tatgatctac aacactaacc 240  
 tagactatat aatgcccttg ggcctacata aaatctgcca ttcattttt tctaattata 300  
 gtagttgcta tgtcactact actaatatag taatttgata gcatctagca ccacagagtg 360  
 tgactaatat tgactagatg ctagcataca cacaagtttc tccagttgca tttggggaaa 420  
 aaaggcagga gtagatggat ataaaacaaa agatctgtta tttgttataa aaaaaacaca 480  
 atcttttaca gtccancaat gactttatct tttntccaaa aattttacat tttcncccaa 540  
 ntttattttt ntaactncct nccctgccct taaataatca ccccttctat tac 593

<210> 9606

<211> 422

<212> DNA

<213> Homo sapiens

<400> 9606

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cttttttttt aatttttttt ttttttgac ananttttac tcttgtcacc caggctggag   60
tgcaatggca cnatctcagc tcactgcaac ttccgcctcc tgggttcaag caaatctcct  120
gcctcagcct cccaagtggg tgggattaca ggcatgcacc accacactca gctaattttt  180
gtatttttta taaaaacggg gtttcaccac attggccagg ctggtctcaa actcctgacc  240
tcaggtgacg cgcccgctt ggccctccaa agtgcctggg ttacaggcgt gagccaccac  300
accagccaa catacanaat tctagcgcta ttcacttgcc ccaaatttgc aacttctaac  360
ttgctganan ttagacaana nataagtnat atgtgaatca ntgatatggg tgggtganata  420
aa                                                                    422

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<210> 9607

<211> 555

<212> DNA

<213> Homo sapiens

<400> 9607

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aaaaatacag tggctttatt tccattgttt atagtcccca gtatcccatc tgataagaac   60
cttcaattct ataaacaaaa atatctcaag aaagtatggt acacaatagt acatataagt  120
aatagtttgg cagaatttta aactctagta gttcataccc ccaaaaaaca aattttaaaa  180
ttcaaaaata acagttttat ttaacatatg ttacacctta acatttaaaa tatcatgctc  240
tagttaaata tttcatcaac aacactgtat acaataaaaa tattacataa aatatattta  300
agaaaatggt ttggtctttg atctgaacaa taaataaaaa cacaggcctt ctacatagac  360
aggggaaaca gttactactc aataataatc ttggtataag cagcatgntg aaaatatggc  420
aataacaaat tcctggaatt ttaactgaca aaccatctat gccaaaantc tgtaactnca  480
cctttccacc cagnttcaaa atacatatgc ctncccgggc catntggaaa atccctaccn  540
caanatgggt gttac                                                                    555

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<210> 9608

<211> 526

<212> DNA

<213> Homo sapiens

<400> 9608

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gtttngatat gtatTTTTta tttccctgca gttttcactt atcaagaaca agtaacaggg 60
aangttgtct gaactagtgc ataaacaaac attctgaaac accactacac gtatctaatt 120
tacaagaacc gtataaaaaa agtcactaaa acactacact atgaaggtgt ccaacgctta 180
cagtcagact ttttccaacc cgttacttgc cttgtagcca caggaaaact ctccaaaatt 240
gaaaagacaa tcttgccaca accctccccc cgcccaacac ctgggatggc tcgatatcta 300
gacttccaat aattattgca atgatataat gcaatacata cctggtaaag tatcttttat 360
gtgatgtgtt acagttttta agccagttaa aatatgcagc cttcagataa aatgtnatcc 420
tcgaaaaatt ttcataattg cacagtttaa atgtinctana tgcataattt ttcenattcc 480
aatttttccg tgttattaat tanaaattgg ntccctnaat anaaat 526

```

<210> 9609

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9609

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gaaaacactt attttactgt cttcaacaac aacaacaaac agataggcag gggaagtcca 60
gaggactcag aattgaagca gctctataca ataataaggg tggtaaatg atgtgactgc 120
aaagaaaatg actaaaacaa aactttacaa acatcttcat gtttgtaatg tattaatgca 180
caaaatatca aaaatagaaa gtctgagttt cttccccgca ggtttatgat aaactatcaa 240
ccttctatth aatgcatttc cttttttttt atttatagag atggagtctc gctatgttgc 300
ccaggctggg cttgaactca tgagctcaag caatcctccc acctcgccct cccaaagtgc 360
tgggattacc ggtgtgagcc actgcacttg gccttaatgc atttactttt ataanccttc 420
tctgtttana antacacnct accaantaca tacatgctgg cattttacca tgaaaatttt 480

```

antttncgtc tcaaactaat gactgccttt ttaccatac ttatacntn ttataccttc 540  
ccantggtac atttaaaca nataatnttt taaatc 576

<210> 9610

<211> 382

<212> DNA

<213> Homo sapiens

<400> 9610

ganaagaagt tcccctttat tcaaatectt tccangtgac ccgggtgggn cataagccca 60  
ttcactttcc ctgcaaacc ccacttcctg tgggtanggg aaccttcgcc ttggcccacc 120  
canaaccgg ggcagtctgt tgangtctct atatattcag cagggacccc atcccttcct 180  
gtccccaggc ctgtgtctcc tcaggactca naactgggtc tctggctcag gctccatgtc 240  
cttccccatc cccanggetg ggggcttcag ggacgtcca tcaaccaca ggagcagctc 300  
ccagaggaac ctaagaancc acatctgctt tgtggtcgat ccancantaa atgtttgtgt 360  
cnnantgtan caattcctaa ga 382

<210> 9611

<211> 527

<212> DNA

<213> Homo sapiens

<400> 9611

gttttngtca atttatntag aaaaaaatta acatgggcaa atgagatacc tcagtgttac 60  
aacagantat agaaatgtct agcaatagtc aaataacttg atctttaaat acaaataacc 120  
acatgaacac ctaatatata ggtttcatct gaatacatat ttattagata aatattagag 180  
gttgtcacat catctaacta catacagctt tgcaagacta gaaatcaca ttagtttttt 240  
gaccagtta aagtatgaaa tgattgcatt gtacatacga tgtacaaaga cnatgatggt 300  
ttctgtggga gttacttcag gctgcactgg tgggtgtgtt tatgtgtgta cgtgtgaatc 360

acctgtgatc atgatatcaa aaattataca aagtatgaat ttggttaca ttttctcctg 420  
 aaacccccgt tcctttccat tttccntan cccctaataa taccnaggtg gcaggacaat 480  
 taccctgaaa ccaaataatan ttnttggttn antaaaacca aacaaaa 527

<210> 9612

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9612

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 tttacttgct aactccaaaa ttttaagtaa accaaatgca atgattctgc tgttactttt 120  
 acattgcata caagtacatg cgtgcacaca tgcagacaca cacacagaca cacatgttta 180  
 agcaacaaat tcaaagaagg gtgtcnacac aattaaaatc cataatgtta aacaataact 240  
 gtgcttgta gttatacaag gtaatttgca ttgatataa acttaactta cattagtact 300  
 ttttagaaac taaaattatt ccaaacgtat taaatgctta gaaaattcat ttctttccta 360  
 aacagattag aaccataatt caatatgtta acctttatat agaattatat gtaactcaaa 420  
 ttatattcaa ttaattcnaa tatataattt aaatacngaa aaaagaaaac tacctgatgt 480  
 gttnnanga tgttttattc cctccaaaaa agaaactccg ccagacaatg atttttatcc 540  
 cccatttccc gcncccctat ccctnaaaa aaatttntnt ttggaaaca aaccctncan 600  
 ttcn 604

<210> 9613

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9613

gagagggaaa aataaacatg cacgattatt taattctttt ggaaaaactg catgtaagtg 60

aagttctctt tcacaanaca caagcatcgg taacttgaca aaaaatgtaa gcttcanatt 120  
 tttatgancc tttacaaatt gctgccagac tcnagattta aaaaaagaag gaaaatccca 180  
 tatctgaana taaatttgct aattctggat aaacgccatg tgtctcagta catttctggc 240  
 acttacctac acatctgcaa gatgggaaat catattgagt cttgacaggt gtatccaata 300  
 aattttttat aggagtatct agtaatttgg aaggtgactc tataaaatta ttgagaacag 360  
 aagcagctgt tcttttgggt ggtgtctttt ctgaagaant tgtttgctgc tctaaagctg 420  
 ggggtgtggct atcaagtict gcagcaatgg tttgtctant caaaactgtg actggcccga 480  
 cattccactt ttacttgctc cgtgatttga aaaataaaaa cctatggtca atacnacttg 540  
 gcttaactgc tccaanccgc cccnnggcc caanaaaccc ttgccgcat acccaen 597

<210> 9614

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9614

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 aacctccaac tccctggttc aagggtattct cctccctccg cctcccaagt agctgggatt 120  
 acaggcatgc gccaccatgc ccggctaact tttgtatttt tagtaaaaat ggggtttcac 180  
 tatgttgccc aggatggtct cgatctcctg acctcgtgat ccgcccacct cggcctccca 240  
 aagtgtgagg attacaggca tganccaccg cgcctggcca atatacagtg ttataagtc 300  
 tacagtagta natantgatg tcctaggctt tcacattcac taaccactca ctgattcacc 360  
 canatccaca gccactttcc atcctgcaag ctccattcat ggtaagtgcc ttatacangt 420  
 gttnacagtg ttccattttt tccccctcct aataataata attattatta ttttgaaaat 480  
 ngggtctcnc tcttttcccn anctggaatt caaaagatga tctcactcnc ancaaccttt 540  
 gcccccnagt ttcaaacaat c 561

<210> 9615

<211> 350

<212> DNA

<213> Homo sapiens

<400> 9615

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ccaatctgta aaaaatattt tcattatggt tattataaaa atataaatgt ttccactaca 60
aatcatttta cattagtaag aggccatcta cattgtacaa cataaactga gtaatatttt 120
gaaaagacaa gtttaaagta aacacatatt gccaatcata tcacatttat acatggcttg 180
attgatattt agcacagcat aaactgagtg agttaccaga aataaataat atatgttaat 240
ccaatttaag ataccaaaca gatcatatgg tacataacat cctgtnagan ttgtggcttt 300
atgtttacng aaagtcnatg cagttccngt ncaaanaaaa gggcggtagc 350
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<210> 9616

<211> 551

<212> DNA

<213> Homo sapiens

<400> 9616

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ggaagtaaag gtctttcagt ttattgctta agaaacaaca gattaaagaa aacttttagt 60
tttagtctct gatgttacag attcagatga ttcctatagg ttatttaaag aattcatttt 120
atcattttat aagcacccta aatttataaa gctaaccaca aaagttgcct gtacattttt 180
tctataccta gtttcttgca aattctacaa tctgacttaa gggataatta acggggaata 240
cagtgtatta ctagacatga aagtagtcct atccttagaa agctgtagtt gaatatacca 300
aaataagtca gttgaanaaa tctgtgattc tagtagtaat accatatcac ttaggaccat 360
caaaaaaatg tgnnctttc tccaaacgac aactgatgcc tttctttatg taagcttttc 420
ccgtgttttg gnacatattc cattgcattt caataaaaat gtttatgcnt tatcnntaaa 480
taaaaaaatt ctatttaaac tatncncgtt cctaattggct ccnatatttt ccctggaaaa 540
tanggaattt c 551
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<210> 9617

<211> 600

<212> DNA

<213> Homo sapiens

<400> 9617

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agtaagtata tacattcctt tattagggtg gcccttgcac ttataaagaa accttcctca   60
aaaaggaaat gtncaaaatg atgaagatac catagtttat ttcaacatac taagccaaaa  120
aaataagaaa acaactaatt tatttgaaaa aaaaacaaat tctgtacatg caggcttggc  180
ttgattgacc ataatgtatt tcagcaaaaa aaatttagat acaccacaca taataaagct  240
ttctatgtac acagtaaata gtaaataact ttgctaaatg gccagacatt tgaaaaaatg  300
aaaacacagt tgtaaaacaa agtatgtaag aatattgtga ccttatttaa ctgtacaaaa  360
agcaatcatt ctctccagcc ttccatcttc acttacattt ttttaaaca gattaanccc  420
cnaattgaag ggattaaatc ctttctcctt aatgccncgg gaatatnaaa ttcnctttca  480
antctttaac tttttacaaa ggaaccaaac ncttaaaggg aaatngtggg aaacaaaaaa  540
tttcaatcct gtgccatccc ccaaatccgc nggggaaaaat tcccantccc taccattccc  600

```

<210> 9618

<211> 374

<212> DNA

<213> Homo sapiens

<400> 9618

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ganatggaga tctcactctg tcatccaggc tggagggcag tggtgccacc aaagctcatt   60
gcagcctcaa actcacaggc tctccttcct cagcctcctg agtaggtggg actacatgcg  120
tgcaccacca caccagcta attttggtat tttttggtgg agatgggatc cagctaaatt  180
gcacaggctg gtcttgaact ccaggcctca agcgcttctc ctgccttggc ctcccaaagt  240
gctgggatga caggtgtgag ccaccgcacc cagccagagg gctccttcta aaatggttgt  300
catctgctcc cactcctgcc ctcccagang tgcctanaaa agtnaanaan naagctccac  360
tgaagaatgc ncca                                     374

```



<210> 9619

<211> 544

<212> DNA

<213> Homo sapiens

<400> 9619

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aaagaaaaat aatttttatt atactttaaa ttctgggata catgtgcaaa aacatgcang   60
tttgttacat angtatacat gtgccatggt ggtttgctgc acctgtcaac catctacatt  120
aggtatttct ctgaatgcta tccctccctt tgccccacc cagcaacagg ccctgggtgtg  180
tgatcttccc ctccctgtgt ccatgtgttc tcattgttca actcccactt ataagtgaga  240
acatgcagcg tttaggtttc tgttcctgtg ttagtttgct ganantgatg gtttccaact  300
tcatccatgt ccctgcaaag gacaanaact catccttttt tatggctgca taatattcca  360
tggtgtatat gtgccacatt ttctttatcc agtttatcat tgataaactg gttggnnttc  420
aattcttggt attgcaaata atgccgttat aaacatactt tncctgtttt cttaaaataa  480
aaataattaa aacccttngg gttataccca ttannggaan ggcgggntcn aaagggaatc  540
ccgg                                                    544
    
```

<210> 9620

<211> 431

<212> DNA

<213> Homo sapiens

<400> 9620

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cnaaaatctg aattctttta attacctgtn tcagatgaat naaaaaaac tccggaaata   60
atgaatgctt tcttaacaca acagaaacnc ctacacncat gaacaggaat ggttcagggg  120
aacccggttt ggggtgtnaaa ctggggctgg gctccccang tggaacctgc tcttaaaaac  180
acaccanaaa gctgggaang ctctattggg ggccgcttgc acacgcaaca gtacagtttt  240
acttttttcc tggacagtgc agacagtgcc atcagctcta gccttgcagg agggcacagt  300
    
```

cattcttcan acttgcactc ctggctctgg tgctgcatcc tggaaaggac gcgctcgta 360  
 aacancangt ntgcgtgga ggacangacc tctgcaggc tggccttgcg gacagtgtct 420  
 cgganaccnc a 431

<210> 9621

<211> 498

<212> DNA

<213> Homo sapiens

<400> 9621

aatgacagtt aatggcaaaa gggaaatitt tagctataag gatctggaaa ggcctgtggg 60  
 aaataatgtg agcgaanaat aggacttgtc tctgttttca cttataattt tcaaaagtca 120  
 tgaagtacta ggcaaagttt ccaaaatgct tctacttaat ttaacctgat tctccccgcc 180  
 acaccagcaa aatgcttttt atgttggtac agtaagtttg caaggtaatg atgaatacct 240  
 gaattgcaga aattaggcct aaactctgat gacccttaat gtaaaccaca ttttaacgtg 300  
 ttgagggtca ttatttgtat ggcacaggta tatcnggaaa naagatggat atactacccc 360  
 tgggaagcca ttcagtctct cccttacaaa tgcctcctat cacatgacag gcattttcaa 420  
 anccctgttt tnccttgctc tcaaatnate atggtttata tttnccttt tgtgggcanc 480  
 ccnaatgtn tttttacc 498

<210> 9622

<211> 549

<212> DNA

<213> Homo sapiens

<400> 9622

gcatattcaa ctgaagaaat ttatttactt ttttctaggt acatagatga cataattata 60  
 gacaagtttt gatacatagg aaaacccttc cgtccacctc tctttatgct aatgaatca 120  
 tcacaataat ttttacaatt tttaaaacaa tacacagctt tcttgggctg aagcaattgc 180

aagaacatat tggctactggt atattacagc tacttacaat gttttaaga acagcaatgg 240  
 agaaaaataa gttattttaa tattgatttc atatacagaa agtgcaatgt tgtagttgt 300  
 tatataactt gctcgacagt ttcttttctc tatcaatttt aatcaagat aacttggact 360  
 ccaactatta ttttttttct tgaaaataat acagtacaca catggcanca ntgacttggc 420  
 aanttgacct tttttgctgc agttatgaaa gccaaacttn ctatttcngg aactgattnc 480  
 cantaaatta ttatttccca tttccccctt ncctggggggg ttcangaaaa aaaaaagggc 540  
 cnctgaata 549

<210> 9623

<211> 598

<212> DNA

<213> Homo sapiens

<400> 9623

aaagtggtag cacattttat tcacagagca atgaaaatta ttctataaa ttaatgtgag 60  
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 ggtganacac aagttatgaa gtaatganta ctttctcctc gtggttttta ctttaaaagc 180  
 acatgctaan anctggatgc agtggtcac gcctgtactc tcagcacttt gggaggccaa 240  
 ggcgggcana tcacttgagg tcaggagttc cagaccagcc tggccaacat agtgaaaccc 300  
 cgtctctacc aaaaatacaa aaattanccg tgtgtngtgg tgcgtgcctg taatcccanc 360  
 cactcaggaa gctgaagcat gaaaacgctt aaaccaccca ggcanagtt gcantgatcc 420  
 aaaatcgcag cnttggactc caccctggac aacanaacaa aactaccccn ccataaatat 480  
 ttgttgggtg aaattaaaaa ttgaaggatg attgttaaaa atccnctngg ncccccccc 540  
 cntnaaaaac cccccacnca aaaccccccc gaacttaanc ctccaacat ccggtgaa 598

<210> 9624

<211> 466

<212> DNA

<213> Homo sapiens

<400> 9624

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gagacagagt cttgctctgt tgcccaggct ggagtgcagt ggcatgatct tggctcactg 60
caacctctgc ctcttgagtt ccagcgatct cctgcctcag cctcccagat agctgggatt 120
acagggtgtgc accagcatgc ctggctaatt tttgtatitt tagtagagat ggagtttcac 180
catgttggcc aggctgttct caaactcctg atctcagggt atctgcccgt ctcagcctcc 240
caaagtgtct ggattacagg cgtaagccac tgcgcctggc ccaatgtgtg gttgttatta 300
gctatgccct ttaccgaact ccttttcttg acctcctata cctacacctg ttgtaaagaa 360
acaaatacaa aacaggattt cagcaaaaca ctaaaagaag agcgttctag ttttttaaaa 420
aatttaantt ncttgtnngc acataacaat gaactcntgn ttncnc 466
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<210> 9625

<211> 500

<212> DNA

<213> Homo sapiens

<400> 9625

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cataananta ctttacttgt ggatttcttg gntaaatgta ttaacatttg tttcttctca 60
ctaaaagtcc acattttcaa caaagctgta tgtntaanat tganagtctt attccacttg 120
ttcttttctg aactggtgta agccaccagg ttctccgtgt actgcaagat cgactttaca 180
aacttttagt actgctgata ctcatgcgca ttcttccac aaacagcatg aatgttgacc 240
aactccagcg caatgagtaa cagtatcagg ctgagcacag gggacagtag tctgatacta 300
ctccacatac gcaggtantt ctgccgtg cganaccgca gcgtccttc caccactgc 360
ctgtgtctca gctctganc aacggtgacc tgggctggac acacggcggc actgttcgct 420
gatgcttcgg ancacaacca gcacttcag cacaatcctg ggggnaaaaa nanggtgnga 480
aaaagtnttc tgcaaaacnc 500
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<210> 9626

<211> 584

<212> DNA

<213> Homo sapiens

<400> 9626

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agtananaca gtgttttgcc atgttganca ggctgggtctc aaattcctag cctcaagtta   60
tccacccacc tcagcctccc aaactgctgg gattacaggc gtgagccacc atgccagacc  120
tgatattact attaaatagc tatgagctag gctttccgta aagtatcccc tggatggcaa  180
accagtaaga anagcttata aacttcactt cttctgggtt acaatctctt atctttctgg  240
aacggtaaag cacaatgggt gaaattagac cccttaaaaa aaaatccaat gctgtatatt  300
tgctttatca taacatgtat ccctacatgg cacttctcaa naatggcatg gcagggangg  360
atgtnataac ttaagcatgt tttctcatta tgcacttgta cactgtgcat tggtttatac  420
ttaatttggt acattttccc taaaataatt attctctgct ccttcctcac aacaatccca  480
attccccccc ncccccnct attatgaaga agcttaattg gacnaaaana attttngagg  540
aaggtatacc aggaagaaca atnttttgaa tggggatccc ttn                               584

```

<210> 9627

<211> 573

<212> DNA

<213> Homo sapiens

<400> 9627

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aacacacacc cttcctttta tattttcagt atattaaaaa ggaacagtac aaatgctgtg   60
gtattaaaaa ggatccttat ttttcaacaa atgaactttt ataaacaatt ctgtaatgaa  120
atgaaaacag tatcttaata caagcttttg ttaaacaana ttttaaaatt ttaaaattan  180
aaaacgtaa nattaaactc tttcaaaggt tcaaacaaaa aaacaacctg tacaatctcc  240
attacatgtg tctttgtaca cagtctgggc actttgaaaa tgtaaagtt tttaacgttt  300
gactgacaga ancagcactt aaaggettca tgaatctatt ttccaaaaaa gtatgctttc  360
agtaaaacat tttaccattt tatctaacta tgcactgaca ttttgttct ncctgaaaag  420
gggatttatg ctaacactgt atttttaatg taaaaatata cttttaaaaa tattttaact  480

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tcctgagtga cttatccncc aatgggattt aatgaacaat ttctaaattt aaaaagaaaa 540  
atttntntta tccacnntt tttttccact agg 573

<210> 9628

<211> 351

<212> DNA

<213> Homo sapiens

<400> 9628

acactanaaa aatcaagttt tttattttaa aatattttca aaggctaagg ccatagcaaa 60  
acaaccaag ggtggttgaa tcaaactcag ggaattagag gagcatcagc caatgcaagc 120  
aggtctatat aaaatacaca tcatttataa atgcacacag cagaaagcac agtggcccca 180  
gaggaccagg cagggggaca acagagagaa acagagcact atctggaggg acaggcacac 240  
ccgcaacact caaagccctg ggccccaant gcacctcaa antcacctac gctgcancat 300  
ggctcttgcc ctttctganc ctgggtntac ctnaaaacca atttaccan c 351

<210> 9629

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9629

acaaatttaa attaaatttc ttttttagag atgggacctt gctatgttgc ctaggctggc 60  
anatttgcac tcttgggcta agtgaccctc ctacttcagc cgccccagca gctgggatta 120  
tagtagtgcg ccaccctgcc tggcttaatt tcagttttct taaaaaaaaa aaacaaaaaa 180  
aactagcatg cctgtcattt tattttgcct actggaaacc accagttaaa acaagaanaa 240  
aacaggaaac ctccagttaa nagggtttta naaaagtgtt tttcanaaaa aaaaattgta 300  
cattcaaaan agtggttgtt tcctttaaat tgttactgat aacctacaat ctcactttag 360  
caacatatct gtgtgtattt atgtacgtga atanacntgt gtatgtatgt atnatgttat 420

gcacattttc tcaatgatga aaaatttttg ttctctgaaa aaggacttta ctggcgaaaa 480  
 tccaaancct tatgaacnaa aatgggttaa naantttaaa ttggcaaaat aacttgaaat 540  
 aaacaaaatt tnggcnaaa naaaaaatg gcctttttaa a 581

<210> 9630

<211> 608

<212> DNA

<213> Homo sapiens

<400> 9630

gagtgtctga tttaatcggc cttgtttgtc tgagacagct gactttgttt tggctcctgt 60  
 atgatcaatt tcctcttctg ggagtgtgtt cagcatgaca tttttgatgc ccttcttctt 120  
 gatcaacctg cattttatcc atattatctt tgttttcatt tttaaatgaa gtttctgtct 180  
 ccattggagc atcactgtga tcgccttcca aattttgctt ctcaattact gatgcgctag 240  
 ccacactgaa gattccatgg atgttaacac gaactttaac cttcactttg gaactatcac 300  
 catcagactg tggaaaaaca ttctgaatag tgaagctccc aattcttgca tcaggataag 360  
 gcacttcatg tnaattagta taaaatgctt ctagttcaaa tggttccttc ttgttgaaag 420  
 taatgacttt tganaatggg gcaggatggg tcttacanaa aacttcacat tcccacttcc 480  
 atcctcaaaa naagtctccc cttaatgtga ttgaataagg aacaangtct gttatggaaa 540  
 atcccccccc ttaaactctg tganaaaacn cncctgttan gccatccctt gcaaaactcc 600  
 tcacatnn 608

<210> 9631

<211> 552

<212> DNA

<213> Homo sapiens

<400> 9631

gggcggggac ggagtctcac tcttgtcgcc caggctggag tgcagtggg cgatctcggc 60

tcactgcaat ctctgcctcc cagattcaag caattcgcct gcctcagcct cccaagtagt 120  
 tggattacag gagtgcgcca ccatgcccgg ctaaattttg tgtttttagt agagacaggg 180  
 tttcaccacg ttggccaggc tggctctgaa ctctgacct caggtgatcc gccacacctg 240  
 gcctcccaaa gtgctgggat tacaggtgtg agccaccatg cccagccaat ttctttcttt 300  
 taaagctcta ttaagtcatt agtataaagt taaaaaggca ctcaaaaagc aatggtattt 360  
 gcctgcttta tattgtatat taaaataagt gatagtagca tttcattatt actgtatccc 420  
 tgtcagttat gatttctgta ttcattatgt acttttttac tgaaagattt taaaagttgg 480  
 cacaattata aactgcacta gtgctttaat ataaaagaga gatgggtctg ccaccagtta 540  
 agttcnnnnn nn 552

<210> 9632

<211> 590

<212> DNA

<213> Homo sapiens

<400> 9632

ganaaggnet cactctgtca ccaaactgga attgcagtgg gcgtgatctc cactcactgt 60  
 aacctctgcc tcaattcaag cgaatcccct gcctcagcct gaataactgg gaatacaatg 120  
 gggcgccngg ctaatttttg tntttttagt aaaaaaaggg tctcaccgtg ttggncaagc 180  
 tggctctnaa ctctggcct caagtgatcc acccaccttg ctacgcctcc caaagtgtg 240  
 ggattacagg cctganccac cgtgcccggc catgttgctt ttataattga natatttcat 300  
 ttgttttggg ggtaggcaa atttaatttg ccattcctca aactcagtaa cttcaaatat 360  
 aaacaatgcc taaaatgaat atggttcctc attatttcta tcaaactact acaaatactg 420  
 aanaatcccc aaattatfff ccncagaagc aaaaaaacan ttcaagggtt gaaaatctcc 480  
 atattaataa ccccgggaaa ttccaatggc cttentatff ccagggttat gccatntgaa 540  
 acccaattcc ctntnttttg tnccccacaa tttcttcant ccttttccc 590

<210> 9633

<211> 516



<212> DNA

<213> Homo sapiens

<400> 9633

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agatgaaaga gggtttattt attaatatat gatagccttg gctcaaaaaa gacaaatgag   60
ggctcaaaaa ggaattacag taactttaaa aaatatatta aacatatcca agatcctaaa  120
tatattattc tccccaaaag ctagctgctt ccaaacttga tttgatattt tgcattgttt  180
ccctacgttg cttggtaaata atatttgctt ctcttttctg caatcgacgt ctgacagctg  240
atTTTTgctg ttttgtcaac tgacgtttca ctttctgttt caccagttct ggaggaattg  300
ttgaacagct tacagcactg cctgaagaag tgatactcag agttcttggt ctatactgat  360
tcatagctcc cacattttct tcatctctga aaggcctgaa ttctctattt aatgacaaca  420
aggcaattag atgagggcat catcttcata ctgctcagaa gccacagggg antcctcctg  480
aactctctga acatctgcct gttgtaattt nnnnnn                               516

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<210> 9634

<211> 572

<212> DNA

<213> Homo sapiens

<400> 9634

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gttttatcca aattttattct caggggaaaa agaaagtagt ggctctacgc aactttttca   60
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agtttccacc tacttaagag agatgcctca aacaaattaa ctttattttc agacaacagg  180
tccaagaaga cttcacagct caatcatgac gaacatgtgg ctgtttcctc acagccagga  240
accctcggta ttagaanaaa actccaaccc cccacaccat catctagcct cttttctcac  300
tgtgaagaac tgatgagaca gaattcctga gaagggaaca tttaggtgat ctgggataaa  360
agggcattga aaggactgga caaactaacc ctccccntgn aagggaaggga aaagaatntt  420
nccaaacaga ctancagaaa aacaagaacc ntcantttct tcaggataaa caaaaaggcc  480
ctctaaatgc tctgattaaa nggttgtcca tgcctacagt gggcgganga taattctaaa  540

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aaacanaant ttttnccnnc ccaatgctcc at

572

<210> 9635

<211> 465

<212> DNA

<213> Homo sapiens

<400> 9635

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ttgaaaaccc aggccagaca tgcttgatcc ctgacacagg gangccctct ggccctctg	180
ggatgaanca ttcatggaan gcccatcttt ctgggttttc cantctggtt agtgggcagt	240
tgttcaccca cagaacacag gggctctgtc acacttgagc ctgggcctg aggactgacc	300
atgccagggg acttccattc caggagacc ccttcagggt aaggagaact gancatttgc	360
ttgcatctcg ctgtcanctg gaatganccg actgggaagt ncaaaaaacc catngctggg	420
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<210> 9636

<211> 594

<212> DNA

<213> Homo sapiens

<400> 9636

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aaataagctc agaaanaccc agtgccactg tgtggccaaa gacttacgga cagaaaangg	120
antgaggcac aaaaagcana agtgangcct gcaaacagca ggggtggctac agctcgtgtc	180
tggcttattg aaacagantt tgaagtgtg ctgcctgtga ctgattcaag antaagttac	240
agtgtccaca catccaatta gatgactgtt cactacgtat ggagaaacct ataggctaaa	300
cttacagtat gtaaggangc ggcttcaggc tacagctgaa ntaatgtgtc cttacagttg	360

gaaccaggag ttcattgggaa ttcttcatca tccagtgggc tgtaaagtgt cccatgctga 420  
 antantctgt ccttacagtg tnaaaccaag ggttcatggg aattctccnc atccagtaat 480  
 cttaagtgt gcccctccta attatnttc ctaccgggn aaccagggtt cttgggaatc 540  
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<210> 9637

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9637

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 gtctttgttc tcattggttt caaaaaactt atttatttct gccttaattt cgttatttac 360  
 ccagtaatca ttcangaaca aggttggtca gtttccatgt tanttggtcg gttttgaata 420  
 atttncctaa tctgaattc taatttgatt gcactgtggt ctgaaaaant gttgtaattt 480  
 ccgttctttg cattccggtg tgtattgttt acttccaatt aatttggtca atttnaaaan 540  
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<210> 9638

<211> 547

<212> DNA

<213> Homo sapiens

<400> 9638

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ccaccctcca atcttacttc actttacaac caagtatcaa tagaggctgt tccttcatgc 120  
gagctgtggg agtatataca tcattgaata acagacactc cagaaatcaa cagatgtaca 180  
ttatttacat attactatat ttaccgcaaa tagaaatatt ttctaagaaa aaaagtcaat 240  
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tgcgtttgta actttaaaaa tangcattgc ttctatgaa gcactaantg ctgctccatc 360  
tataaatanc tcctattttc agtttgggtac cacattaaac tgccccaaaa tgttctgtga 420  
ccccaanac acaaagttgc tgcttatctg ggtccagggt cagtacaatt aaactcaa 480  
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gggnccc 547

<210> 9639

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9639

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gtcttgtccc taagtgaana antcattaaa gctgtttatg taaagcctgt gtcttggaga 180  
cagggtgtta tctctttatc agtcacatgc attgggtatg aaatggccga ttggattggc 240  
tggcgtgcct gtcactccac actgccctgg gaccanacag ctttgggtgac cgagctggag 300  
aggggctcca canctggact gaccctgaga aagctccacc tcagancagc acangggagg 360  
agatgaggcc ccnctggttt ccctggggcc aggcctentg tctaattgca naaacagcct 420  
gaggacaga nccatggaaa actnaagaaa aggcangctt gtccattcca acttccatct 480  
ctgcctctga ancacatctn ttgaatcagg gngtgaacca aaaccnctgg aatttctccc 540  
tgctctatnc ccn 553

<210> 9640

<211> 380

<212> DNA

<213> Homo sapiens

<400> 9640

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aactgggaaa gtataccaat ttcactttat tagcctaatt tangaataag atgangaaan   60
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agaactctgg tgcagtcccc aatcactgca gctttactgt cagtcagtgg agctgcaatc  180
cnaaagacgg aaaatcgact cctgttttcc atttctgtgt ccagtgactc ttcanttaca  240
gtgtgatgag gtctaccagg ttgcctttag gaggagtent gctgtcngga aagaaattta  300
ctaagggtgc taanaactga nttctttgag cataggtgtn atccacatca gaaaancccn  360
cagctgttaa atctgaaccn                                     380
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<210> 9641

<211> 513

<212> DNA

<213> Homo sapiens

<400> 9641

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cagttttaac attttattgt aattttatat acaaagaatg cttaacatta acagagctta   60
gaacaacagc aacattttaca gaaaactgga ttacagatgt ttaacaacta atttgtttga  120
acccaaacat tgtttttacaa atacctgtag tttaaaââââ caaaaaaaaa aaaccaatcc  180
cccaaaccgc cccaactcct cccacaaaag aaacaatggt aggaatagac caaaaactca  240
aatatgggcc ttacagtaca taagaataaa aacagtaaac tataaacttc taagtgttaa  300
ctctatacta aaccactttg cattagaaaa attataaaat aggatggctt tagtccactt  360
tatnttttaa aataatcaat tttaatgctt antttcccca aaacaggagc ttaaaaanca  420
atttgttact aggacatttt gtcgggatac antctagggg aaaggacata acaaanccna  480
naaacaanat agggacgcac taatggaaac ccn                                     513
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<210> 9642

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9642

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tagctacttt atccttatct aggacagatt ccaagcatag gcagctacag tctgaaaaga 180
attattataa gctagaatgt ttctaagaaa aanatttggt ctcaggaata cgaaaataga 240
tncaaggaa tgacccagac atgacaataa gtctaacaaa gttaacacta gtaataatgt 300
gtcagataaa aggtagaact gagctaaaaa cttnaacttt aaaaatgttc agcaaatcaa 360
taccngaag ttaaagantc ttgaatgttc tagttcattc ttctctccat tttaggtact 420
ctcttaatgg catTTTTatg gtnagttgaa ttacctcaga anctgncgtg nccctcctgg 480
atgcccccg aaatccnaat ngggaangac ctctcccc 519

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<210> 9643

<211> 535

<212> DNA

<213> Homo sapiens

<400> 9643

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aggatgattc aactttatga tttttcaact ttttgatggt ataaaagcga tacataatca 60
gtacaaacca tatacatncc accatttttc agtacagtac tcattacatg tgtcaacact 120
ttattataag ataggtttta tgtagatga taacaccagc atcttgctca ataaattgaa 180
gccagctttt tcaacagaga acattattag aatgaaacta gatgcaagaa caggaaagta 240
aacacctgtg tcatgttcaa caagactgaa ctacggagca aagaatcaca cagtgttgca 300
agatcttgaa ctgactagat gataggatta ccaaaccac acngctattg ctggaaaatt 360
atgtcatgca gaagaacaga ctggcacgan tacatatgtg ggtttgcct acacaaatca 420
aacctttaag tgaaacaagt ctntccaacc atcttcccat aaaacctant ttctatggga 480

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aaacaatcaa ttaagcctaa nccccncct tttanatttt tnttcnttta taaaa 535

<210> 9644

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9644

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 gntttttaat aaggtcatta tgaaatctga atttctatta atactctggt gcattcattt 180  
 catctgcaaa agcaactggc acaaccactc cttgccgggt cagctctcgg anaacatcta 240  
 atattgagtc tagttctgtg cggaacttct ccagctcacg attctttaac tgtgccagtc 300  
 tttccattt ttcaacttct ttgttttgct cagtttctac tacttggtgt gtttgctgta 360  
 ttatctgttg aanttccgtg tctctttgtg catgtctcat ttccatctgc ttaattttct 420  
 tttctaacc acnaaatttt ccaccccggn gtttnggttt ccttgggctc cccccaatcc 480  
 tccaaaaaat ttggttaacc ttcggtaaa aatcccccca aactccnaaa atncaaaaaa 540  
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<210> 9645

<211> 557

<212> DNA

<213> Homo sapiens

<400> 9645

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 tctgatttca attggccaaa atccaaccct tgagtttgga cattcaanac caaatgaac 180  
 acgttacttg ccctttctat gantanacat catgggtgtc ctttgaaaaa tcagcaggcc 240

tcctgacctc ttaaaccacca gcttgccatg agtccacacc aaaacaggga gccaatacct 300  
 tccagcacct aatcaggcaa gtnacttcac tcatgaaaaa caggacacct ctataccaag 360  
 gctgccaccc acagatattt cctgggtgct gctctataac aatacctgct ttigaacaaa 420  
 cntggtatct nctatttggg gattataatt tctcccgcca gttttincta aaactcncag 480  
 gaaaaattaa aaatttggca aaaaanctta ccnctttgac ccccnaaaaa ataattccaa 540  
 aaaccccccc nccccna 557

<210> 9646

<211> 459

<212> DNA

<213> Homo sapiens

<400> 9646

acaggctcca natgtgttta ttangctatt taaataaaac atgtgacat ttctgtnggt 60  
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 tggatcaact caccacactt cactctcaaa ngaaaagcac agggggaaag aaatgagtga 180  
 gggggctcaa aaaaatctgt gtggctccta ccaccccaaa catattctgg ttcccgaaa 240  
 ataaaaagca aggcttgctc tgatctttcc cagttctcan antccancag gccgctgtgc 300  
 tggacacata catggatcca ccaacataca tcantccttc tgtgttctct cctgcatggt 360  
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 taaattccct aatgaaaagg cctnctaaaa aaccnnaat 459

<210> 9647

<211> 508

<212> DNA

<213> Homo sapiens

<400> 9647

gccagtgcag aaacgtttta tanaaataaa aaggtctgca tanagccgan gctcggagcc 60



acccctctgc cgcacatcca gtacagagag gattctataa agttcacact ttttcattaa 120  
 gtagtaatan aaatacgggtg aggccctgaa actggcctgg tgagcganga aaggccgctg 180  
 ggcgcttcca ctctgcaggc cggggctgaa ataaccgag ttccgttctc acanaaaggt 240  
 gcggctgcca cctcttgaca caaaagccgg atgggcangt ttctccatg gccaaagccgt 300  
 atcagggtac aaccgcanca ntgcaagggg cticctcaag gacaaatggc taaaaatgtc 360  
 ncggtgaaaa tgtcntcccc aaaaaattcg ttctccctaa acccgtgggg gcaacccanc 420  
 cttcacgtn acactggcca tctgcaaatt ccaactgttc ttctcnaac ccttnattac 480  
 ntcccttcc tcccttttgg tnccttng 508

<210> 9648

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9648

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 cgtgggccgg ggaaggccca aggctgcanc acatctacac nangggtcag caaaacttcc 180  
 ancggtttcc acactcgttg caaacaacaa aggtgggtcat gggctcatca aaactgcggg 240  
 tctgcacctg tgtgtangtg canttctttt tctgcactt gccncangtg aacaagtctg 300  
 tctgcgtnc gccagtgcgg gccatctggt gctctcgat ggctccttg gtcatggcct 360  
 tacggatctc cttaactca tcaactggcca tctcctctga ngtcacaca ncaatctgct 420  
 ggggttttat ggccncaca acacattccc ccccagntc aggttcctt ggcacccctc 480  
 caggtttga aanacaaacc ctnncccggt cctaaacntc ccttntttt tcccactnc 540  
 cc 542

<210> 9649

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9649

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acaaagccag catgttttgc tggaggcaga nattatggta ctaagtgtaa gccccctggg 180
acttagccga cttctctggg anaaatgtgg gctttctcac gcaatgggtgc atgtcatgct 240
gcgtctaagg aactccattc acatcgaagt ctatgtgaat ggccttcttt agaggatatat 300
taggtacaac ctgagcaact gaatgtgaca gccctggaac tcaggcatta aangacattt 360
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tgcacgttat atttatatat attataaac ctctatgtct aaggttctaa ngtcctaagg 480
gttctatgat cctacagttc tctgactcca anaacctaan aattntatcc ggttctataa 540
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tncc 604
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<210> 9650

<211> 603

<212> DNA

<213> Homo sapiens

<400> 9650

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accaaggtaa gaatcatccc caaccacttt tcagctgaga acacttgcca nanaatgtct 120
ctggatggga atagatgtgg taccagctag gccactggac taccgagtt cagctgccag 180
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aaggtncaga tagtgtgagc tgaacatcag tangaaaatt atttcagaat ctggatgttt 420
aataaataaa cattattgtt tatcatgttt tccaagttct aanaaaaccg gaacccccaa 480
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acatanaatt tgatnggggtt aaaaatgaat gggttaaaatt ctgggaaatt naatgtttga 540  
aattgaaaaa aaaatcccca nccccaattg atnccatctt ggagggctna accnttttaa 600  
ccc 603

<210> 9651

<211> 605

<212> DNA

<213> Homo sapiens

<400> 9651

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tgctcactgt ctttgaatca aaaatgaaan tattctccaa gatctcataa aacttcatca 480  
tgttggttg catggtggaa aaattttcca tactgttctt cgggcatctt tgttaaactg 540  
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<210> 9652

<211> 497

<212> DNA

<213> Homo sapiens

<400> 9652

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 gactttatct ccgaagcctg cctgggtgga acgggcttgg cacaaaanga nctgcanaat 180  
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 gatttttttt ttttttttga natggaatct cactctgttg cccangctgg anttnaattg 420  
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<210> 9653

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9653

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 ctacaaccac gcaccacat gcctgcctaa ttccacttt tatTTTTtga ganatggggt 180  
 cttcctgtgt tgccctggct tgtctcaaac tcctaggctc aagaaatcct tccacctcan 240  
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 tatataataa tatgtatTTT agaatgcatt tagattcttg cttatttgct gaaattgaaa 360  
 tgctataaag aatgaaattc ctaaccatct ggaaaagaaa tattctatga aaagcatanc 420  
 aatggccaat taaaatgggc caacttggtt atggaaattt nccatggcaa gggttnaaat 480  
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<210> 9654

<211> 563

<212> DNA

<213> Homo sapiens

<400> 9654

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accaaccttt tggatcatctt tctcattctc ttacaatcat cctaattccc tagtacaccc	180
ttaccatata tcaataaggg caccataata ttatgcaaag aacagatata tatgcctgat	240
ctcttattag acttgacca gagactgttg aaccactcca ggcatgaact ccaaagctga	300
ggcacactga ccaagcccct gggcatctac agaagcaaag gcgttctcgc tccagctggc	360
tgctccttct ggaagagccc tttaatctgg gttaatcggc catagancct ctctctcaat	420
ggaagaatgt ggtanctaag gtccaaaatg ttgtcctcc gcgctctctc tcttgcttcc	480
ataacttggt ttggttgggg agggaaaaaa ggnccccct ctccctccaa atcnttacnt	540
tttcccctta nncanntgc ccc	563

<210> 9655

<211> 574

<212> DNA

<213> Homo sapiens

<400> 9655

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caagctccgc ctcccagggt cagccattc tctgcctca gcctcctgag tagctgggac	120
ttcaggcgcc cgccacnang cccggctaatt ttttgtntt tttagtggan acagggtttc	180
accgtgttag ccaggatggt cttgatctcc tgacctatg atccacctgc ctcggcctcc	240
caaagtgtg ggattacagg cgtgcgccac cgtgcctggc ccaccatgaa ctacattttc	300
aatccagggt atatgtgggc tctaaaacca caaattagcc aaaataaaac agttcttcaa	360
tagcaactaa aaactatctt taaataagaa attataactt ttctctgatt tattgcaata	420
taaaaaatcc tctggaacta atttttacc tcncttaata tttctggtga aaatattttt	480
aactgttacc aattnattgn aantttttg aataattccc ttncgttaan ccccccaan	540
aatgccacc ttccccaaaa attccntac cccg	574

<210> 9656

<211> 474

<212> DNA

<213> Homo sapiens

<400> 9656

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tcttttgtgc caggtactat tcttatgctg aacttacctc atttcattcc atcccatcaa  180
cagccttgtg aagtaagaaa aatgaaactt gctcagcaag aatgtnaaac caggctgtca  240
agctccaggg cccaagcatt taaccaccat tccgtgctgc caacctantg tcnatttcat  300
ttccagcaca agtnatncaa tctgaaaanc cacttgcttg gaacaatgtt gctttccttc  360
ttcaacacna attaccccc aagaataatg acntttnacc ccatttctnt taaaaaggaa  420
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<210> 9657

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9657

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gaccaactaa atggcatagg taagcatggc tgtggccacc catacacata cacacacctc   60
atatttagag tgtgaatata tatcattgca tanattccac cacgtggaan anctctatgc  120
ctgtgggtgt atatacccta nagatcagaa tggatggttt tccagaatta atganacttt  180
gaatgatgca gatgttggcc ttccccaaa ataaaagggtt tttaaattaa tagagcaaca  240
ggatgcaaat actgggcaaa ttataagaaa tcataaagtt gaatctcana aagcatatgt  300
tcagttttgt nactgaaggc tgttgaaaat ttctnctctc tctctttgaa naatgaaatg  360
caaatgcctt ttagcaatgg cagcattcaa atcccncaaa aaatcangca ggggccctt   420

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aaggaatact ccattggcca aactgtaaaa cctgctgggg ttaattnaaa ttgaacaaat 480  
nctcacaatt cttccctct caaatttccg aaactggatt tggaaggtcc gatancncc 540  
ctttccggaa tgcccgncc cnggggttta aagatttga cncenn 586

<210> 9658

<211> 621

<212> DNA

<213> Homo sapiens

<400> 9658

cctactctgg agtcctatgc cccagtcgga gtatttgccg ttgttatgtc tgccaatcat 60  
gtttgaaact attcctaacc ctaggagcat gggaagtgcn tagtacaaca tgtatttcca 120  
aactgaatt tgtccatctc anaacananc cccattagta ccctggaggg tccccaaagct 180  
gctggtccgg ggcgtggcag tcacagtga ggaggagggg acagactgga gcacagctgg 240  
atccacgatg caaacctttg gccccacaga agggttaacn tgcccanang acacacagca 300  
aggtgccccg tcaactgtgc tcgganatct tcttgccac agcacctgcc ctctgtccca 360  
ttcaattcaa ttcctccgca acctcnagga gaaacagctg agctagaagc agacctccat 420  
cctgctctgc atctcangga cagatgaagt gggancgcag gaacccttaa aaaacgggcc 480  
ccaagtaana atcaaantgc ttacnaaca aatctgggcc tttgttaaaa actttgggtt 540  
gcangatntt ttaactacca aaaaactatt gctccccccc caaggngaac ccaaccctaa 600  
actntcccc caaaaaaat n 621

<210> 9659

<211> 367

<212> DNA

<213> Homo sapiens

<400> 9659

acgnagtta gcaatttatt atgataactc tgcaatcttt tcagccactc ttttaaggntc 60

ctggtcntcc attctgggca cagtgtgaca ttacctgaa cagaaangaa aatggcncta 120  
naaaatgang gaaatttggg tgcctaaaaa ttactacaaa cangcagggg cgcaatggct 180  
cncgcatggt atcccacact ttgggaagcn aagtgggtgc atcaccaagt caggagtttg 240  
agatctgcct ggccaacatg gtgaaacccc ntctctacta aaaatacaaa acattanctg 300  
ggtgtggtgg caggcacctg taatcccanc tactcnggag gctgangcan ganaattgct 360  
tgaactc 367

<210> 9660

<211> 489

<212> DNA

<213> Homo sapiens

<400> 9660

aaagaagtta tagcacagtt tattaagcta gaaatgaatt ttaacagccc tgtctcagtc 60  
tgaatgaggc aaatttaggc ccacatcatt aggtatttca caacttaaca cctaaaattt 120  
aacataaatt tacaaaaata aggcttattt taaagtcac tggagaaact gttttacagg 180  
tatcttaact ttatttagct ctctgtagaa ttaacatctt tgcaaatata ttattcaacc 240  
aagcatttgc cataaagata agcatcaact ttccatttgg acaagtgata gtgttcaagc 300  
tacttgactt gtgaaaaaca aaaaaccacc atgacttctc aacaaatata ttttaaaatg 360  
aaatatgctc aggctgataa acaaacaaaa tattnaaatg ganactgaca ttgaactncn 420  
tagtcccttg aaaaaccena aaaacantgc cctataaaat gatattttat nggctttaca 480  
aaaacatac 489

<210> 9661

<211> 534

<212> DNA

<213> Homo sapiens

<400> 9661



gtttttaacc ttaacttttt ttataatata tacatacata aaaactgcac aaagtatgtg 60  
 tcaacaaaat acagtcttta aaacttaaat atcatttaaa cagacttaat tgcatacatt 120  
 ttatatacgc acaaagtcag gattttttaca tggcaggga atactgtgga atgatgangt 180  
 ctgcaggaga cagatgctat caaatganga ctctgggggtg gtatttttcta aaaatggggt 240  
 tctgaaataa atttttattg tatgtagctt attttacttc tnagaaggaa caaaagatac 300  
 ntttgggcag ccnaagtatt tctacttctt gcttaaaaca tttcnggcga atgaaatgat 360  
 tataataatt aggtaagcca ccctattaat nccncggtc tncagtttct tatcttttcta 420  
 aatacctaaa aaattttatt nttcntttct cccctacccc cccctgcctt tctnaaatta 480  
 tnttttgaca ttttataatn tttgnaaaat aacccaaaaat tntttttaaa aaaa 534

<210> 9662

<211> 481

<212> DNA

<213> Homo sapiens

<400> 9662

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 ctcatagcaa cgtattgcag tctccatgaa agtgcataa aacggttaag gcaaagtacc 180  
 atcttggtac agacatgttg caaactgact tttaaaacaa ttttttaaaa tatatacaaa 240  
 ctttttttct tctattcttc tcaaaggcat ttgaaaggga tacttttatg aatattcttg 300  
 ctgtagaaca atgtanaaat aacttctggg tataaaacag taaaaataaa aatattctac 360  
 ctgagtgtgt taaatcaagt gatttgtaaa acaaaacctc cacaantgtg ggctttctac 420  
 atgttacttg ccaggctgaa aggnntaccc ccnctnttct tcaacncaa tccctantga 480  
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<210> 9663

<211> 504

<212> DNA

<213> Homo sapiens

<400> 9663

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ggaaatgtgc ttttattttc aaactcaggt atgtgacact ctacagttca atgctagcac   60
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tcctctccat ttactctgtc aggctgtata tggggagcaa cacatatggc tttgtggcag  180
ccagaaagtg aaggtctttt taggaggtga catcaacaat gacacaaaca catcactctg  240
caactgaagg caggggaacca gactcctagg gctaagcaga gatgtcagac ttcagaggca  300
tttgggggac tcttcagatc cacatcetca ctgaaaatcc agggcctggt tctctccagt  360
tcactaccgc ttgggcagca gctcccactg cttcaggctg gtctttgctt tccagaaaag  420
atggactcat gagcactttt tcagcccctg tatatatggc tattcttatg ctcccttttg  480
gagatntntt tnnncnnaac nccc                                     504

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<210> 9664

<211> 594

<212> DNA

<213> Homo sapiens

<400> 9664

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agcattaata catttgtcat ttattaaata atggcaaacc atagcatcat aaagtattaa   60
gactgaaggg ctactaacct acctattcat tttaaagatg aggaaacaaa tgccagagac  120
agtaataact tgtcaggagt ttccagaatt caattctcct tttttagatt aataaattag  180
accagatttc ttcccatgg ttactgtctg aggagattaa ctaatatgcg atacatgatg  240
tcttgggttc tttcatgttt aattcagttt gttgtgattt ctaaaaatgt atctctttta  300
aacaattgct gctgtgcaac agtgtgatgg caagggaaca gaaaacaaca aaaaaacttg  360
attgaatact tcaatcaaag tgcttctttt ttatgtgagg ataaatcata ctgaattaag  420
gggaaattta agaatatattt ttaagaaata acaatttcag gtaggcaatt gtgaggaaaa  480
taacaatcat acagccaagg ccacttaatc ctccccaacc cccagggtna aaaatcaagc  540
ccgccttacc aatntcccc ccgttntttt gccttattta cangaatgnt tncn         594

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<210> 9665

<211> 587

<212> DNA

<213> Homo sapiens

<400> 9665

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agtaattctt atggtattgc tgggtctctc aggaatatgt atcatttgat tttagcatg   60
tggggttaag gtattanatt actaccacaa accgtanacc cctgcatggc accacattta  120
ttttcaggag tagatgttac atggcaggta tcaaaatgtg atgatcaatt ctgtgttttc  180
tgttgattaa acctcctcat ttggttaa atagccagtgtg taccanaaag ttctacacag  240
gtcaaaatta tatcactttt agagcagcaa tacgtgatcc aaggttttct tgaaggtagt  300
gcaaaanatg cagttcataa tgttctcccg attcaggaac tcttatgctg tgtctctcct  360
gaggatagat ctgtaaataca tatggctttc cagccctcac taaaaaactc agtaatatac  420
tggtatgtgc aaaatggaca ttctcatcca ggaaaaccat gtaagaaac agtaaacaat  480
ttggttcana agggaacttt tctgcttgca tggccncaaa tcctaattaa taaccctgtt  540
cattctggtc ngggtaaccc aaaaaaantt ccgnnttccc gtttccn                    587

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<210> 9666

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9666

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gagatggagt cttgctgtgt caccacact ggagtgcagt ggcgtgatct ttgcttactg   60
cagcctctgc ctcaaagggt caggtgactc tctgcctca gcctcctgag tagctagaat  120
tacaggtgcc cgccaccaca ccagccaat ttttgtatct ttagtaaana cagcgttttg  180
ccatgttggc caggctggtc ttgaactcct gacctcaggt gatctgcca ccttgacctc  240
ccaaagtgtt gggattacan gccaccgtgt ccggccaact tttccttct ttacacgttc  300

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tgcccacaaa aaaaantgta acatatgtct gcactcanca caaaaattat gttacccttt 360  
 ttnggtncctg cncacaaaac gtatggtgat gtatnccttg tcctaccctt attgtgaatn 420  
 tgagtcccn gcctggtccc tgtccacaaa ggggcaatnt tatacatctc tgggcccttc 480  
 anccactnga at 492

<210> 9667

<211> 501

<212> DNA

<213> Homo sapiens

<400> 9667

gganagacag gggctctatgt tacccaagct ggtctcaaac tcctgagctc aagcaatcct 60  
 cccactttgg catcccaaag tgcananatt acaggcttgt gccaccatgc ccgaccaga 120  
 tcttattcat tctatctaac tatatttttg taccattaa ccatctccac tcctcttgaa 180  
 actacccttc ccagcctctg atatccatca ttttactcca tatctccatg agtccactgt 240  
 ttttaattttt agctcctaca aataaatgag aacatgcaaa gtctgtcttt ctgtcctgac 300  
 atatttcatt gaacataatg acctctantt ccatccatgt ttgcaaag anangatctc 360  
 attcttcttt atggctgaat agtactccat tgtgtatatg taccanattt cctttattca 420  
 ttaatctatt gaaaggaaac ttaaattcct nccaaatctt anctatcgtc nntatttctg 480  
 cantaaacat gggantgcaa a 501

<210> 9668

<211> 435

<212> DNA

<213> Homo sapiens

<400> 9668

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 gntttttact ccaagaaaga tcatacatta ttctttgttg acaatgccag ggtgattcan 120

aaagacaagt naaatgttag ccaaggnaat gcacaggagc gcagancagc cgcactccag 180  
 cccctcttct ctcagtttcc ttaggatcct ctattacccg ctcccccca ttcctaggcc 240  
 cagcctgtca ttcctctcta tggagttact gccagattgc cttgcctcac tgtaactgga 300  
 acatcaattt tccccatgaa tctgtgagcc ctgcaaagtc aganactgtg ccttgctaac 360  
 accctantcc tcaaaagcac acaacagagt ncttgacacc cacgaagctc tcangangca 420  
 ttgctgttga ntatn 435

<210> 9669

<211> 344

<212> DNA

<213> Homo sapiens

<400> 9669

gacactgctc tancagggga aagtggctgc caccatcttg ttaccgccag gtgaatgcag 60  
 gcatctgggt tttctactgg gtgtcaactg gccaaaggant gggggaaggg tatgtgcctc 120  
 ctactgctg aatgggggtg anaatccana attcccacgt ggtctccact gaaactctgg 180  
 gancggacaa acttccttac tgaccagtgg ggatnaaatt tctggctcct ggcttgggtct 240  
 tctctgacac caccacagca agggganaan tctcacttga ctcanccctt gctgggtgng 300  
 gtgaaggggg accacantgt ttctgtggt gttcanctgc anta 344

<210> 9670

<211> 359

<212> DNA

<213> Homo sapiens

<400> 9670

gtctggaaac attttttatt ttcacaactc nggt nagggg aaagtgtga cattcngggc 60  
 tggacactac gcacgaagaa aacaaggcca ngggttgggg gataaactta aggcttccat 120  
 gctttcnttg ggangaaaaa canggggtcc tcatatctcc accaagtatg tnaccaaacac 180

aaattcaatg tcncatctgg cactggccca naaaaangaa ccactcaccc agggtcaccc 240  
 ancaagcatg gccagggctg gtcacactgt ggcctgacag gggaccaca ctctgggctg 300  
 ctgatatggg gganctcaan gaacangtcn gcanaagatg atgctgtcan ganttgggg 359

<210> 9671

<211> 624

<212> DNA

<213> Homo sapiens

<400> 9671

cactaaaaga tacaaatatt cacccaagtt tattgattca aagacatgca tttttttcat 60  
 cagcagtttt ataataatca caattcctaa accaagcact ttgtggaaat ttgctccttg 120  
 ctatgtgttt tttccttaca aanactttcc accagtaaga ttgttacaat gtaaggtaag 180  
 aaaacagtgt gaactatgtc acgaatagtt aatacagtat acagtattaa gatagttttt 240  
 ctggtctcta aagaaatggg actttagaat tcagtgtgtc tcanaaataa ttctgaccat 300  
 taagtaaaca tcaaaatttt aataaataac ataaatgaaa aaacaaacac cttttaaaaa 360  
 ttgcttatac ctaacaaaac aatttccttg atgaagggtc tggttggnnt tatcttggca 420  
 gtgttcattt ttatacaatt tttgaattgc atttactcca ttctgatgaa attcccctct 480  
 ttggaatccc ngaanaaatg aaaccatac tgctaccata ttgtgncctc ccgaaatgct 540  
 tcnatcccct tccgaaccna atgaacaccc ccgccttgna anacataaaa naacantttt 600  
 tgtgccgtac cgaaatcctt aaaa 624

<210> 9672

<211> 607

<212> DNA

<213> Homo sapiens

<400> 9672

gaaattgcag aaataaattt tatttttaat tttcagaagt aaaaaaagtt ataatacttt 60

aactgttaac aagggnntag ctgatatcca gttaacctaa tactgcatta atgtttttat 120  
 tcttttcttg aaaatactca aatacaccta cattgtgctc ttttaaaaaa aaaataagga 180  
 tacttacatt taaaaagttt ttgaggaan aaaattgtac aacattcatg tttttcatga 240  
 cactgaatga tatatcaatt tatctcttag aanaaaaagt agcataatta aaatcactgg 300  
 ttccctaate ttcaactctc tctccacaaa taaaacctac ctcttttcac aataaaaaag 360  
 caaaaaataa tatacaatcn aaaggagcta aactgaaact ctttatcccc ttgttcaaaa 420  
 nataaattaa ttgttgggan atcaacataa caatccnccc tgaatttttt ttcttttacc 480  
 atttancctt ggtcaaaaaa naaataataa tctatanccc aaaatntttt aaactcctat 540  
 cccttttccc cttatctgta aaaaagaaaa tggttttntt ttttaanggaa cttttntttt 600  
 tttttnc 607

<210> 9673

<211> 468

<212> DNA

<213> Homo sapiens

<400> 9673

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 attaaganca ttatganaag tctggtgaga ctgttacaga aaaaaaaaaa taaaagtttc 180  
 tgantctgat aattccaagg gtatctttta naactcactc actggtgtct gtgcaaggac 240  
 tttccttggg ggaaaatana ctttacaaca ggcggaact ttcattggtc tcatgcgtgc 300  
 ttttggattt cattcacttg acaanaact aatcttccgt tgatggtctc ctgggttatg 360  
 gccttgatct ttgganttgc aaacacttct ntgctcaact ttgattcttc ccgntccct 420  
 tcaactctct cctccanaaa ccgtcggtag ttggttnatt ccncccca 468

<210> 9674

<211> 500

<212> DNA

<213> Homo sapiens

<400> 9674

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tctgtaactc cgggtgaact caactgtgct tattactctt cagttccaaa ttatcacaat 180
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atttttcatt gatttcctta tgtcacggga cagatcttcc agttttctgt ttttgtttgg 300
gtcttttccc tgttcttttc accagccctc aggccaggca cagtggctca tgcctgtaat 360
cccaacactt tgggaggctg anacagcgga tcactttag ccaggaattc ganaacantc 420
tgggcaacat gacaaacca tctcttaatt gtccaaaaa attatccatg tntctntnc 480
cattttcngg aaatnccaac 500
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<210> 9675

<211> 552

<212> DNA

<213> Homo sapiens

<400> 9675

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caagctccgc ctccegggtt cagccattc tctgcccc gcctccanaa cagctgggan 120
tacatgtacc cgccaccacg cccgntaat ttttgtatt tttagtaaaa acagggtttc 180
accatgttag ccangatggt ctcgactcc tgacctctg atccacctgc ctcagcctgc 240
caaagtgtg gggattacag gcgtgagcca ccgcacctgg gccccatcct gatttttaag 300
gaaacttcaa cagagttct tccagtcct tttaatgat ggacactgtc aagaagtaaa 360
tttcacctaa taactggttt atccanaaag aaaactgact cctcattcaa atggcattat 420
attaaaccag aataatctcc ttacctgaa acaatggttt ttgttaattt taaaaaaaaa 480
aaaaaatccc cnaagtgtt ctgaatcctc ccagggaatt ttcntntntn ncnnttttnc 540
cttttaaat aa 552
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<210> 9676

<211> 531

<212> DNA

<213> Homo sapiens

<400> 9676

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aaaaaataaa atgttcgcac aatggganaa aattgcttta agtggttacac ctanccaac   60
agancccaaa ctccgtgttt ccgttctttc tctttcggtt tctgctgang gctgggtgaca  120
cactggcctc ttgtcagtgg ctgccggcag ggccaggaaac aaaatanaac tgcagcacag   180
ctcagtccaa aaagcgttgg caggccttct tccaccggca ggccgtgcac cactgggtccc  240
gggtgctgat gccatacacc ttgcggcact tcttagcctc ccctcgggct ttcctggcac   300
cactctgggc ccgggggtgga gaggtgacca tcanatgaga tttcatnca ngtgctggct   360
gctggggctc gctgaactta ncgaccggct ccggaccgga aaaaaaaaaac angcggcgga  420
aggggcanca cccactgac actggtntnn attttttggt aaaaactggg atnttgaaag   480
aatgcaaaaa cctgttntcc ttattttccc gaattttccc naaagaancc c           531

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<210> 9677

<211> 621

<212> DNA

<213> Homo sapiens

<400> 9677

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gcaaactgaa tcctgcttta attcaagctt gtggagaaca aagtcctaca gaaacattcc   60
acagaatttt ctggaaaaga nggatcacia caaccctgtt aaaaggagac tgagagtaat  120
tcatagctca ccaagttctc tccgtatcaa atttccagaa taccacaag atttcttcac   180
cagctcagtc ctgactcaac ctcttcaatc tttatttcat tagaagacia agggtcatat  240
tatttaaaat tattctagtc tcaagaaatt taaagacttg aagtagtaga gcattcaaaa   300
cttaataaac ttttaacaaga aagccagctg atcttaacia gttactctgc tagtaaattg   360

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gaaatagact gaatcatcct agacataatt tcattagggc tgcaaaccac ccagggggag 420  
 agtancacaa ttataccatt ttgttatccn cattccccag aaatttgcta ccccaatnaa 480  
 naaaactttg tngccntana cacttatittt tttaaataatc cccccccaaa atttccctgt 540  
 tccccctttt gtttcccttt ccccttcnaa attnccccnt gaattctccc ggagaatgga 600  
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<210> 9678

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9678

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 tacaggcatg agccaccata cccagctaatt tttgtatittt tagtaaanat ggagtttctc 180  
 catgttgttc aggctgggtc tgaactccca acctcagggtg atccacctgc ttcggcctcc 240  
 caaanantg ggaatatagg cgtgagccac cagcctggc ccaaactgan tttttttaaa 300  
 ggttttctgt gaatcataaa ttctactgaa gccctatggg gtataaatta ttttcaatct 360  
 ctcttttctt catttatatt ttcatatagt ccctattcat aacacaatga tggctcaaac 420  
 tatatataat gtgaattgan tttctaattt aataaaaaat ccaaattctt tttcttggaa 480  
 agatatcata ctaggcacaa agaaccattt ctaagaaaag tggatanatc tccttanaat 540  
 aaggaaacnt aattttaacc aaattcacc ctagctgaatc ccnaanaaga ntcntcccc 600  
 aaat 604

<210> 9679

<211> 302

<212> DNA

<213> Homo sapiens

<400> 9679

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 ccccganctc tccctccagc acccantact tcttccacaa ggccctatgt nantcagtt 180  
 taaaacccca gggccttggc aggggtcagg tgggcgggaa caaggggtgg accttgtaac 240  
 actggagcta aancanccan ataaggtggg ctanttctta anacctctgg anggtgtggc 300  
 ta 302

<210> 9680

<211> 554

<212> DNA

<213> Homo sapiens

<400> 9680

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 gcatttggtc tacaatgtgt aatatgaaa gtttatcagc acaactagac tgaattattc 120  
 ctcacatdaa tccttgggat gtgttacagt ttgatcctt ggtaaatagc ttcaacatgc 180  
 aaaaaatata caaagatggt tacacatttt gatgtctagt gagttgtgag acctaaatga 240  
 agcctctgcc acacagttag gtgtatatga tttctcttta gcatggactc tgatgtcaat 300  
 gaatgcttga acttgtgatg aagggtttgc tgtacttgta aggattctct caanaaatga 360  
 aattctctga tgctgtgtag gagtgaattg tgactgaaaa ccttgccaca ttattatac 420  
 ttgtatggtt ccctctgaat ataaattcct tgaatgaacc cccagggat taaactttga 480  
 actgaaaaac ctggcnatt aatttcnttt aaaagntcc ccctaatntg gaaaaatnaa 540  
 atttcnaaaa aggt 554

<210> 9681

<211> 401

<212> DNA

<213> Homo sapiens

<400> 9681

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cttccatgga agttttgtga gaactctcca ctaccattgc caagggctga gtcaggatca 60
tttttcagtg tatttattat atcagtagat acaaaaggaa tatcttgtga cttcggagaa 120
atattttcag cttcaacttt aggcacttca ctcagttctt ctttttcate tatctcttca 180
aggctataat cagagcttat tccaaatgtc aatgatgtta tggctgcctc aggtgtccca 240
gggcactcaa anacagaggt ttctctcatc agtttgggcg cagtgcactg ctctgactg 300
gaaancccan ggtgaaaggt ttcacttaaa natgaaanat tcaaaantgt tccncctaaa 360
tgtttcttgg gctggatanc tcctcaggaa aatttgcttc t 401

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<210> 9682

<211> 563

<212> DNA

<213> Homo sapiens

<400> 9682

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gtcatttcac cttttaaagg aaaataaatc aagtangtag gtaaaaatta ctgaactaaa 60
gagatactaa agatcagaag actggccaat tgagaaaatc aagtttcatg attaagagtg 120
actcaggaag gatgtcttag ttatgagggg ggcgggtggaa gacagtttat atctttgggt 180
atttatggca ggtcagaatt aaagatttaa ctttttccct tactctttac ataaaaagct 240
ggtttatctg aaaaaagtat caatctanac ttggcaataa agtggcactt aggcactata 300
ttattgatat ctacaatgac ctcttgatg cacaaaaaac cctgaagggc ttttttgatc 360
agcaaaacaa aaacagaaaa gcnaaaaaa gittaatttt gttttgttca attttactca 420
ccanaccctt tgataccaac aatgctggaa aacatttggc aaaaacaggg ccncaatgcc 480
aantnccttg gaaaggtaaa ctctataat cttnccggat nggcaantt ntgggggttt 540
ttgggtattc ctttgaaaat ttt 563

```

<210> 9683

<211> 479

<212> DNA

<213> Homo sapiens

<400> 9683

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acttcacca aaggcatgtg gcatatttac caatgtcatg tattctgaac aaaggcaaaa 60
aatacaaatt cctaccatta aactggcttg gttgttgttt gggttggaat aactgtgggg 120
gcttggggaa aggtgtcgtt tctttctant antctcatgt cgctttangt cagctgggct 180
ggcttacacn cgctgtgcgg tcttcatgga natgggaact ctgtgtgtca gcacaggaaa 240
gtggtctccc ancgttcaac ctgaaacacc caantcctgt aggtgcttgc cgtctctgaa 300
acccangaa catcantgca agaangaaaa aactgctggc aaaaatgact cccaaggctg 360
ttctcncctc tgggtgggaca acctgggtgc tggccccaan gggtcctcc aaaaaaatnt 420
ttttacctg ncaggtgtta ntngcacctg caaaaccaag ttctnccgtn aaaaaagaa 479
```

<210> 9684

<211> 613

<212> DNA

<213> Homo sapiens

<400> 9684

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gataatttag aaatttatta caaaactttt aataaaaaat acaatgatat tacaatttg 60
gttttccaaa gctttcaaatt ttttcttaac attatctttc gttttaagaa cacttttgaa 120
gtcggcagtt atttaaaatc cttactagaa aaaaacaaaa gcccaaggat ttgcatтта 180
gtcatcatct aggtatacag cgtgttttcc gaaagcatcc tttaagagtt tggagatttg 240
atgaaattgc tcatgtaata agcagttagt gaatactatt gaatcctaaa ccagataag 300
tcntcttggg ctggctgtgt ttttcatgtg aagaaactca tttatagcac aggcacccca 360
ggccaatana gatgattaca gatctctggg ttccagaaat tctgacccc ttattccanc 420
taccaaaata ctttaattgct aaaggaatta cncccaccag gcacaaaacg gttinctgaat 480
ntnacaaaaa aaggtgcccn aaaaatcttt taaaactcnt ggttacacat actttatctt 540
taaaagggtt tgaaattttg gggaactaaa aatcngtaa aaanggttn ggtggnnttt 600
```

ttnaggaaaa naa

613

<210> 9685

<211> 577

<212> DNA

<213> Homo sapiens

<400> 9685

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agtgaaaaca aatttaatat catcttggtt gaacaaagct ttcagaataa gtgagcaatt 60
aaattcttaa agtanggaca gaacaccaac aggntctana ctccggaaga attgtaagcc 120
gacaaatggg cattgttttg cttaacagtt ttagcttcaa tgtaaataa tattattact 180
tagaatatta gcatctgaac tatataatga ctatcttctc attttacttg aattaaaacc 240
agaatttctg gaacttccaa atagtcttta aagtttttca atataaacat aaactaacc 300
ctattcctct ctacatatca aatgtgaaat aactgtcaca atatatcagc attttcacag 360
aaagatgttt aaggcttctg gcacataaaa tgtgtaattt ctgtgtgaca atgtcataat 420
tatatacaga aaatatttaa aattctggtg gaatttaagt tctnaagatt aaaaaaacca 480
gaattcccng tttataaaat attaaatcta tgaaccccc tnaaantgaa agnaattgtt 540
ttccttaana aaccagggg ggttttcccc ccantnt 577

```

<210> 9686

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9686

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actttgaaat acatttttaa tttttgaaa atcaatatgt natctacaaa atattttgtt 60
acatgattaa ggggtcaacct gtcttatatt tgcattgaca naatacaaaa ctgtatttta 120
agtaagacat tataatagtc attgttaagg aagtccttct aactgacttt ataagaaaag 180
ggngtgtatc acaagcatag ctctggaatg aagggaacta acatcctana actgtcta 240

```

atatacatca ggttgtaaaa ttccagcctt tatttatgtg ctggaaagta tcttttttac 300  
 atatcttttt ttagtgata aactcttggtg attccacag aaaaaggaaa tgttcttaaa 360  
 ttcagatctg cacaaatcat ctacccatga aattcattta cacagttaat atgatacctgt 420  
 aactggaaag gtgaccanac tantcacaaa ctgggtccact ccttgggaaa tttgcccctt 480  
 tgaaccccaa attgtccaac tccccattgg atttttttan cccaattaaa ncctaaaaag 540  
 gaaattttcc ccccnntcc tttctcccn gttcccnccc c 581

<210> 9687

<211> 409

<212> DNA

<213> Homo sapiens

<400> 9687

cagcactccc agttgggtgt tttattattt atttacttga caggtaacat cgatttggtc 60  
 ctacaagaca ccatgctata ggcttagcta ctgctgttg cacaagagaa ctttccctgaa 120  
 ctctcaggaa gcccttgcag ggcctatcga ggacagctca gtcactgaag ggaaaaattc 180  
 cataccaaag aanagagaaa aattccatac caaagaacag acttccccca ggggaacctc 240  
 cgtcctacag cccttcaggg ccatcacact cacacacntc agccatcntc aaaatattgg 300  
 ccatgctggg aaaaacagga ncctgaacta aaaggtgggtc ttcaaaccat ggcntccgat 360  
 ttatttttnt tncaataaaa tnanttaaaa angctctacat gaataaaaa 409

<210> 9688

<211> 523

<212> DNA

<213> Homo sapiens

<400> 9688

agaaaaatga aagctgattt ttattttatc atcaacagcc attctttaga catgaacatg 60  
 catacgtaat attctacgca cacatcacag cttttaacgt tagttaataa aggttaaaca 120

cacaacatac atccttacaa aaaaagtcaa aatgcaaact taaaacttta aacaaaagta 180  
 ttactaattt aaaaaaagtt tgtgttggt accattcgta caacacagtt aatttaaaca 240  
 ttctcatttt ggttgcacat gaaaaaggcg gcagtagaaa ataaagtcac tgagggtttt 300  
 taaatagcag aatangcagt cttgccatgc aggagaagca atattaaata ttagtttcaa 360  
 aaaaaatcca catttaaaaa tatttagttc aagtcacaga attttctcag tanaaacccc 420  
 aatgcaatgc ataattanct ggcttaaatg gcccgtttga aaaggatana tccctncaaa 480  
 atgtacttta ctgatttngg ccnnaaaaaa aatcttnnaa cct 523

<210> 9689

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9689

gacgcggggg agagatttaa ttacatagc agccacttgg ggtccagtca gagctggggc 60  
 agtgggggaa tctataaccc canagggtac ccccanacc cccacccccg ggagaccagt 120  
 cctcaccaac ccttgatgg gctcccaagg ttgtgcanaa aatgctccag tcaaaaggat 180  
 ananacattt gggaataagg ctgtcccaa gttgggggaa ntccacggcc tggantgggtg 240  
 gcctacatgg tggcccangg gtctganaaa ccaatccatg tcctgggcga ntctcacct 300  
 ggtgggccta aaagaaaccc tncgcggcg aaactttccc tagnaagaang gcneggtact 360  
 ggtcaaatcc tccttccac gggtnaagcc gcctccttcg cacaccaca actcccggca 420  
 caccancctg ataaaacnct catcctggga caccaaaatc nccccccct naaatnttn 480  
 aaggcccgnc caaaaccca tggtc 505

<210> 9690

<211> 624

<212> DNA

<213> Homo sapiens



<400> 9690

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gaatatattc ctccctttta tttatagaag agtatacaga aattcatttg gacagaagga 60
gcctctctat gtaacaggca cccttctgct actggtcaca atcaatcaat ggtccagacg 120
gcaattatga ttttccacat tcctcaaagc tgctctctcc tgaaatcact ttgcaaattt 180
tgttgaccaa tttgcaaaca aaaganaatg cagtggccta cccaacctan aaatctgttc 240
tgcctaattc ccttaaaaac accattgaga atgcaaaaata agtccctttt ttgttttttg 300
cagaagcact acaagaaaagc gtgtctaaaa ccacagaact atgcacacac aaacacagac 360
acgcgtgctc gcacacacag agtcgggatac aaagaatctt atctgataca tanttggggg 420
agcacgggaa aaagctggca agaaaaggat atggagagat ctgatcagct aaagatgttg 480
gaatgttaca ntatggcatg gaaattgggtt ctgggctat acaaaaaagg gggtgggcag 540
gcaaaaaaaaa taataantcc cggctnctaa aaaaaagttc agtggccctc ctnatttaaa 600
nanattaaan gccntttcct ggat 624

```

<210> 9691

<211> 376

<212> DNA

<213> Homo sapiens

<400> 9691

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aagtcagagt tgccctttat ttttagattc ttaaattattc tanaatgagg taaaacgagc 60
ctgccagtac aaagtgaaaa ttctacatgg tgcattcttg gcgcttcatt catgattatt 120
tcaatgaacc tcttcttggt cactcttaan atagatctga gtttttgact cgccagtgcaa 180
gggctttggc gacactcaat gacataatat tcttgaaaaa agcagtagca tttctgactt 240
ttcatattca gctcggagggt gtattgtctc gggctcctgt gcagtcnanc gccacggctg 300
ctcatcggtat gatccaggat ggggtccttg gcaattttcg ggttctcggg tccaagnatg 360
gccannccgt ntnttg 376

```

<210> 9692

<211> 551

<212> DNA

<213> Homo sapiens

<400> 9692

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aatgggtcaa actagaacca ggatttaatg tgaaaaatta aactgattct ttattcacaa   60
atttataata ccactctact gcagtctttg actccaagat attttaaate atatttggtc  120
gctgangaan anataagtta tagtatgcat ccttggtcca aaaatctggg cccttccatc  180
cgcaccagcc cttttccaaa ataacttgca ggtcttcagc accggtataa tgtggatcta  240
gaatcagaaa ctttatctgc cctgtaatct cattccatgc aactcctagt attgtgtggg  300
ccaaaactcc tccccgatac ataactggag ttccttccat ttggaaatga ttagccagtt  360
cccgtccttg agaggcaatt tctgaacctt ggctgacaaa caggattttt gacgttatac  420
cgatcaattg gtttagtncc agctgccctc aataaattca atccattggc gcgatccgac  480
aatttngttg gttgtccccg gctccaacaa aaccgccgna attcncngtn tntttggaaa  540
ggaaccnccg t                                     551

```

<210> 9693

<211> 410

<212> DNA

<213> Homo sapiens

<400> 9693

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aaaagacaaa gacaaaanaa tatatttgga aaaaaggctn ggaacacttg cctctantgg   60
anaanggaac tgaacttgtn cacagccttc cgtattttatt aggcaaaaaa aataatgtga  120
aaggaaatgg aaaaaggggt cncgtctcng tccaaaatan gcttgcaana ctgcattctc  180
tggtatgtccc aatanataac ctcaaggagc ttggcgtcng gaancaattg ccctcagcaa  240
accttctggg gcaggcacag tcatganttt gccacattc tgtattcatg ataaacagtt  300
tgctgtttga tcgtatanac tcaactggaat gttgggtcaen tcccatgggc ctttggctct  360
ctgtatatcc tcctttctgt ttatgtatta attgaaagan tgnnnngcca             410

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<210> 9694

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9694

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ggtttcaact gccagcttta ccaatgcagc atttatttta aaattaaatt aaattaaaaa   60
aaaaaaaaatt gcatcaccag gtatTTTTct cnattaanga ngcacctgac caaggtgggc  120
cgtggccggg cggcaacaac atcacactgg gccatttaag gcagctcctt ctggcggggc  180
atctgtcttc centcctttg tcaactgtccc canggtggcc accatggctg gggctgctgt  240
tactgccatn atgggcccta nggggaccnc cacggccagt gcaaaaaaaaa ntgctggggt  300
nggtatggcg gggccancct tgctcaatgc tgtggtgatg gccacantaa cctcgggggg  360
cacanccacg gctggggcaa caatcacttc ctttggcccn gggcaagcaa ggcttaacaa  420
ccngctgtca acacacccga cctgccgaac gcctcctctn ttctggccac tnttggcaen  480
ggggggctcc ccgnccggga accctctcac ccatncattg gnaccttcc ttcttgttcc  540
caccctcctt tng                                                    553

```

<210> 9695

<211> 424

<212> DNA

<213> Homo sapiens

<400> 9695

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gagatggagt cttgctctgt tgccangctg gagtacantg gcacaatctc agctcactgc   60
aacctccacc tcctgggttc aagcaatTTT tctgtcccag cctcctgant aactgggant  120
acgggtgcgt gccaccacat ccagctaatt tttgtatTTT tagtaaanat ggggtttcac  180
catgttggcc gggctgggtc cgatcttctg atgttgtgat ctaccgcct cagcctccca  240
aagtgtggg attacaggag tgagccaccg cgcccggctg gttatccac tctttaagtt  300
ctttttgaca gtcccaacat tgtcacctct cgacgtgtgt tttgcagttc gagcctgaan  360

```

anatggattt atgtcataag anctgccttt gtaataaaan tggaataagg tnngctacca 420  
aana 424

<210> 9696

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9696

aaactttaaa aattatttta ttatctctgg gtgacatttt catttatagt ggcatttata 60  
tatacacata catataggag gtgaatgtga gatataattcc ttagggcttt tgataaaacc 120  
catatcttta tccctagtgc atttacaaga gagcagcgta acggtaactt tganattttc 180  
cttttgacag taatttccat tatcatttga atgggagaaa ttcttaggac atgatttgga 240  
atcatttcta gaatataaat ttcatataat cttattttat aatgagacaa aactgtgtct 300  
ttgtaacaat acgtgataat ttaagcctat gttttaatgg ttattgacaa agtttaatgg 360  
catccaaaat actcttatgt ctatctgaat ttttttctg tactcttctt ttttcttaaa 420  
agcatgatag acccctctgc aaatacagan ctttgttgt tgctttgctg tactttggta 480  
ccttgctgtt tattccttaa tctaacacac cttagtttgg tagtataatct tacttaattg 540  
ccactaaaaa aaatgctaac ctaggttaa ctggga 576

<210> 9697

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9697

caaatgcagc atattttaat ttgtttcaaa taaagcaata tatgtatata tattttttca 60  
gaaaaacacc agatgtttaa ttctacaaaa gcgcatttgt cctcagcaga tcatgtttgt 120  
ctgattatta anaattcttt ttgttaacat taactctcta aagacaatca atggactgac 180

atcactgcta caacacaggt tgctaactga gcctctgac ttcagccaca tcttgatttt 240  
 cctaataatg agtaaatact gcctggctaa aatgcagcaa agtcttgatg agagaaagca 300  
 tcaacagatc aagcaaagcc atgaaaatta tgaagcaagc tagagctgat tattagaaat 360  
 tagtaaaaat gattaagaag aggatgacac aacntacgg gatttgtata ttctgattga 420  
 cactcttttg gcagcgaatt gggtcagcac ctcgggcagg gaacccaaac tgaatgaaaa 480  
 ctgctctttt tcctcctanc tcaggcnacc aacgtcacac cggggactga aaaaactgct 540  
 gcatctgtgg aaacttctat tenccttggg gnaaaaatgc a 581

<210> 9698

<211> 570

<212> DNA

<213> Homo sapiens

<400> 9698

attgtctttt atgttaaact ttctacaaaa ggatgtataa acgggtaagt ananaatctc 60  
 tatctacaaa atgttttctc ttttaagtat tacattactt ggtgtacatt taatagactg 120  
 acatatataa gcacataaaa atcattttac gtaatacgct gcgaaatacg ttgactcctc 180  
 ctccgcctca cccctgaagt gcctcctcct ctatcctccc catcactttc atcatcttct 240  
 gtctctgctg ctgtattatt tttagggctg cctcctccaa gcagtgaggt aattgctttg 300  
 ttccgagcat ttgtgctagc tgaaacctcc cttcttctt cttcttcac aggggccana 360  
 tgttccatga naagtttgaa atctaaatac tgttttacta tactcccttt tcacctcttc 420  
 tgtgattttg gaattancca tgtcctccgc aaggaaatcc aatgttggtt ttggatnaaa 480  
 atnaatcccg gttttccggt taaccttta tcatatactt ttggcaaac ccaatggaaa 540  
 attcttctga attttactat caaaaaatcc 570

<210> 9699

<211> 512

<212> DNA

<213> Homo sapiens

<400> 9699

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ggnttcaaat aacttatatta tttctgcctt aatttcgtta tttacccagt agtcattcag 60
gagcaggttg ttcagtttcc atgtagttgt gcggttttga gtaagtttct taatcctgag 120
ttctaatttg attgcactgt ggtctgaaan actgtttgtga tttccgttct tttgcattcg 180
gtgtgtagtg ttttacttcc aattatgtgg tcaattttan aataagtgcg atgtgggtgct 240
gctaaaaatg tatattctgt tgatttgaag tggananittg tgtaaagtgc tgcttgggtcc 300
aaagctgant tcaagttctg anttctgtag gtctgcttgg tccaaaactg antttaagtc 360
ctgaatattc ttgttaattt tctgtctcat tgttctgtct aatattgaca gtggaatgac 420
aaatctccca ttattattgt gtganaatct aagtctcttg taggtcncta anaacttgcc 480
ttatnaatct ggggtgcncn gtatnggggtg ca 512

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<210> 9700

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9700

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agctcatcat ctattattag tgtagcgta ttttatgtgt ggccgaanac acattcttct 60
tctaagtggg cccaggaaag tcaaaagttt ggacaccctt gctctaaggc aaggaanaaa 120
atgttttggt aaaccattct aatttgggca acaatattat tgactgtgat aaagataaca 180
acaatgatga attgatgaca cttttgtaaa ttgctttata gttcaaagan cattttcaca 240
tatatttggt taaatatctg tctttcctac ttctgaattt cttgagggtg tgtctgaaan 300
ttttaagtat gaattccagc attatctgag caaatccagg cctcagtttc ctttaggtat 360
aaaggtttgt gttttggata nttttaagtg tanacacagg gcacatgtat gcttttaatt 420
cagttcttca attaanatga tctttggagg aaaaaactct cctgatgaat tttaaaaaac 480
aaacacaggt ttanatacaa aaaaactctg gctggcatct ggcggganta ntaataatgg 540
gcctcttaca ttgttcanga aagngtgna 569

```

<210> 9701

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9701

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aaagaaactt ggattgtttt aattggttta aatgcagggt atatgtaaac aactccccag   60
aaatgagagg cacttctcgg aaatacaata acccatgtca ctagactagc aaaacactca   120
gtgcttttga ctgatgaat tgaatgagtt catgattcaa ctttctaatt ttgtctactt   180
gaaaaatagc aagattctta tctgcagcat ttaatgcatt aagatgtatt agataggcat   240
atcagatata ataaaattaa aattgtgctt atgttaattc tgtaatagac ctaactttta   300
aacacctcat gttattcact aggagctatg atctagtcgt gacaatattg gttaaaatag   360
tccatctgag gcagaaagtn aacaagcaaa gtcacttttg caggcttttt aaactgtata   420
acacatgaaa ttatgactat tccccagatt atgcaaccag cttcaattta aaaagctggg   480
aacaatatt atgaagggtt actccccatt ccttcctttn ctttntntt tgaaacngaa   540
tttccccctg ttgccagnc gggattgc                                     568

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<210> 9702

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9702

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cccanatagc catttggtca ttattaaca ccagaggcaa taacaacgct aaaaataaac   60
atgcatcaat tgtacaataa atacttaca aaacctctgt ctgtcacaat tagtgagtgc   120
aaacagaact tctaccaaac cttagtgcatt ttttatitc acaagtnaaa cagaaaagga   180
aaatagttaa tttaatgcta ttcagcacct ttagtaaagt caaaanantc aacatctcca   240
tatatcaaaa acatttgcatt ctgtatcacc aaacatgtaa agttaattat tttgttccat   300
ctttaacatg aattatttta tgtacattac tttttagttc aataaatttt aacaatattt   360

```

aaaaattatc taaattcata aaagtatttc ataaatttca acatttaatt attatgtaca 420  
 tataagggaa gtccacgaaa aaagttaaaa naaaatgttt tcataaagtt caaagccaca 480  
 ttaccaatth tagcaaaaaa tcccaccaa tcaaggggga aggnatccaa acnttccaaa 540  
 atcttatctg cngccaaann tt 562

<210> 9703

<211> 570

<212> DNA

<213> Homo sapiens

<400> 9703

gttggtcatt tgaagcaatt tttctttttt attattatac ttttaagtttt aggggtacatg 60  
 tgcacagtgt gcagggttagt tacatatgta tacatgtgcc atgctgggtgc gctgcaccca 120  
 ctaactcgtc atctancatt aggtatatct cccaatgcta tccctcccc tccccccacc 180  
 ccacaacagt ccccanagtg tgatgttccc ctctctgtgt ccatgtgttc tcattgttca 240  
 gtccccacct atgaatgana atatgcggtg tttgggtttt tgttcttgcg atagtttact 300  
 ganaatgatg atttccaatt tcatccatgt ccctacaaag gacatgaact catcgttttt 360  
 tatggctgca tantattcca tgggtatat gtgccacatt ttcttaatcc aatctgtcat 420  
 tgttggacat ttgggttggt tccaaatctt tgctattgtg aaaaatgccg caataaacat 480  
 acacntncgt ttntctttat ancancatna attaaaatcc cttgggggtt ataccatta 540  
 atgggaaagc tgggtcnaat ggtattccca 570

<210> 9704

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9704

ggtgggtgata gttacacaac attatgaatg tgtttaattc cactgaactg tgttcttaaa 60



aatggttgag atggtaaaat ttatgttcta tgtattttac cacaataaaa tgaaattgat 120  
 agggaaaaga tgaggcaagt acatttgtaa ggaaaacaga aagcttggac caattcttat 180  
 atataaagca agtaatatat catgtataat cttaatctca gatggtaggt aaagaccact 240  
 gtaaaactaa ccagtaccct tgagtgtcac aggcacattt catttcctaaa gcttatgaga 300  
 ttgtaagtaa ccagaaccac ttgacaagat acctgaataa atgaagcgaa ggatgtctga 360  
 taaacaagaa cagaagaggg cgtctttaac aatgactcgt aatgggtgggt tgcctgaaga 420  
 ttcntggcta gcacctggaa atgcnnatc tctgtttata nccaaaanat tctgggggtt 480  
 ttcccgaata aaccggaatc cngaatttct tggaaacccc cnttgaaaac cccttnaaac 540  
 ctg 543

<210> 9705

<211> 574

<212> DNA

<213> Homo sapiens

<400> 9705

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 gcaaaacata ctggaatttc acaaaatgtn caagatttca atatttaagg aactgggggtt 180  
 aggaagcaaa agtggctttc aggtcttcca gtctttctct caagtaataa agctctgctg 240  
 tgaatattca aagctattgg gaaattaccg gtagattttt ctgttttttt tttttcggtt 300  
 ttccactatg ttgtttctct anatatgtaa gcttactcta ttaacaaaa tctcagcttg 360  
 accattcttg ataagtacct aatcgacatg tnaacttttt tctgccttaa atatgtataa 420  
 canggacana acccttaa at ctgatcaatt attaatcct gatttacaan ttctatgggtg 480  
 anctaacaaa acttatccat gcctttattg ccctttacta acccaatttt aaaaaggtn 540  
 gaattaancc cncccaacca attatcngt cagt 574

<210> 9706

<211> 563

<212> DNA

<213> Homo sapiens

<400> 9706

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gtacagttta attattttta gtaaaatfff agacttgfff gaccatcatc acaatcttgt 120
tttggacat ttctataatt cctaanaaat cctcatgct catcaatacc accccttatt 180
cccactcccc agctccagac aaccctaatt tgacttactg acactacaga tttgtctfff 240
ctggatatca taaaaataga gtcatacaac atgtggttff ttttatctgt cttctttcac 300
ttagattaat gtgcttttgt gggtcacctg tgtttagca cgtatcaata ttttattfff 360
ttaggtgcta gattctatta aattgtatgg atcactccca tttgtttatt ctttcatcag 420
ctgatanata tttgangtgt ttctacttta tggactatta tggataaagc tgctactaat 480
attcccattc cagtnttggt tgganatagg ttttttncct ttggaatnaa caccaggaat 540
gaaattgccg ggttatacgg taa 563
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<210> 9707

<211> 522

<212> DNA

<213> Homo sapiens

<400> 9707

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gaaaagcaaa tccattagaa attgatataa acagttgatt ttatctggaa ccaagaatgt 120
gaatgaattg gaacctanat gtcctaacct gtttctttgc ataaaagcca gttgaatttt 180
gaaatttata tggcaattat actttattac tttacataga gctttgtfff tagctaatat 240
tttagagaca gattacccaa aattacctaa tttggttccc acttcattcc ttctcaaaaa 300
ccaaacataa aacanaaggg ggccagctgt ggtggctcat gcctgtaatc ccaccatttt 360
gggaagccna agaagggtgg atcactaggt caggattttg anaccaccct gaccaacatg 420
gtgaaacccc gtctctacta aaaatacnaa aatccccag ntntgggtggc cctgcctgtt 480
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atccccaat acttaggang ctnangcngg aaaatccctt ga

522

<210> 9708

<211> 512

<212> DNA

<213> Homo sapiens

<400> 9708

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aaaagtttta	tacagataaa	aaaaatccctt	ggctaggcaa	agccgtttat	gtgtgtgcat	120
atacagaaac	acacatacat	acatacacac	acggtatfff	acatcataat	tatacatatt	180
tataaataca	ttattttaat	tattttacaa	tataccaaaa	caaggaggca	attataaaag	240
caaataaaaa	atggatgaac	aattgaacta	aatagtcact	aagtttaaaa	tgctacaaaa	300
ctatfffftt	aatctagaaa	gtcatttctt	taaaatatca	aaactaagat	ttcaatacat	360
cactgttgct	ttcattttgg	taagttctaa	catgtttaaa	aataaatatt	ttgacacaaa	420
acagataagc	naatcagaat	gatgactagc	ncaagctgaa	catgctgatg	tnaaattana	480
naatccctga	gtataaccaa	tatanattat	cn			512

<210> 9709

<211> 460

<212> DNA

<213> Homo sapiens

<400> 9709

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aaatgaaaac	atgcaaagca	attcngtgn	tacaacaatc	atffffcccc	ttcagttctg	120
ctgctttata	caacagtgtg	attgacaaaa	aattggatgg	catgtgcctg	ggtcagaaaa	180
tgcatctgt	ttacaaaata	acatcatgca	gcacagtttc	tactttgtct	gcaagtcaat	240
tcacaaaaac	tacttatttt	ctgtttttta	tttgggaggc	acatggaact	gaaaaattta	300

gctgcccatt tttattcaac tacccaccca aaaaaaaaaa aaaaaatcac aaatgacagt 360  
cccnacactc tgcaaatttt ggagggttga natagtaaac actatttgtc ntactccnca 420  
gaatttacta tttnacagaa attaattctcc nangggcctt 460

<210> 9710

<211> 435

<212> DNA

<213> Homo sapiens

<400> 9710

gaataatatt atgggggggg gggctaagac ntttaaatta atattgtttt cacatcaagg 60  
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ggatgataat gtgcaaggag cacggagaga aaggacaagg cagtgaacac atgcattcca 180  
gtggaggggag aacgaggctg atgtgcaaca caactgagga aaatttatag attaaactat 240  
tcaaaaactgc taagcagcct cctgtaccac ataagtccag tanttctaag aaaatacaga 300  
tatggtanaa aaagtnanaa aattttcacc acaaaaccaa tagttaacta ctaacnnaga 360  
aagttatnca caaaatatat ctctcaatac agtgatcaca cctcatctta ntcaaccgac 420  
tcnatggccg gancn 435

<210> 9711

<211> 392

<212> DNA

<213> Homo sapiens

<400> 9711

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aaatcagtaa taatacaaac aaaagttaa atgatatgtg aaaagactta caggtaggta 180  
tacggncttt aatttttagaa aataactcaa gtcagtatca atacaggta aggagaagct 240

tctaattttc cnaacatttt gatacaaaat ttttttcaac gactgtnttt tatanacctt 300  
 ttgtganaaa attagtatag ttctatgaaa cctaacattc nantgatctt atgcnggtca 360  
 ggntaccttg tttaaatgag ttagaaccnc at 392

<210> 9712

<211> 516

<212> DNA

<213> Homo sapiens

<400> 9712

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 caaccaactt ttgcttataa ctacaattta atttcacgtt gacaaaacac agtgaaaaga 120  
 caactttgtg aagatctaata tacaataata aataaaataa tttatacaag ggtttttttt 180  
 tcttgacttt tctatagggg tcatattcat taaaaagccc aaaaggntac ctttgcctta 240  
 acccttctgt agtacaggaa tgattcttan atttgtttcc ttttgttata aaancaaata 300  
 ttgttttttt aaaatanctt gaaatnaaag gttatatgtt accccaccag ctaacacact 360  
 aantggatna caaactattc tctcggtaat ttatatanca aaacatctaa taaatgggtca 420  
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<210> 9713

<211> 466

<212> DNA

<213> Homo sapiens

<400> 9713

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 gcctcgtggc tgcctctgtg agccagaaat aaaggaagct catggattcc ccaaaaatga 120  
 aatgccactt tttccctcat catggatgac tttgttaana tgaacccctt ttacaggaaa 180

ggggttacac aggctgctga taccagtcta nanagggcac ccaccagcca aggctgtgtt 240  
 ctaacttagg tgtcatacca tcggccanaa aaaccatgtn tccataaagg ctgtgaanct 300  
 aactanttta tctgtaattt ggtcctantt gcttccctta ttttatgtcg tttttttttt 360  
 tccttaaata aatctgttca aataacctcc ttatnaatcc tcccaaatca atgttcttna 420  
 nagaaaacan tcaanctaaa cancaatgat nacttttatg gttaaa 466

<210> 9714

<211> 570

<212> DNA

<213> Homo sapiens

<400> 9714

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 tttcaaaac gaatcaacaa caaaaaagta tccagtgttt cttttcttat gaagattatt 180  
 aataaaacgc agtattggta agcacatttt aacagtatgc ttttcttttg tagggaaagg 240  
 agatatggct atgtctaaca tcgtgggatc caatgtgttt gatatgttgt gccttggtat 300  
 tccatggttt attaaaactg catttataaa tggatcagct cctgcagaag taaacagcag 360  
 anggactaac ttacataacc atctctctca acatttcaat tatttttctt tttttagcag 420  
 ttcacttcaa tggctggaaa ctaaacagaa agttgggaat agtctgccta ttatcatact 480  
 tggggcttgc tacattatca gttctatatg aacttggaaat tattggaaat aataaaataa 540  
 ngggnggttg anggtgaaaa tattaaaatt 570

<210> 9715

<211> 583

<212> DNA

<213> Homo sapiens

<400> 9715

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cagcagctct gccagtagcg caagcagctg cccgtgctcc tcctgtacgc tggggggaag 180  
tgcanccagc tcgctgcgca ggctccgctc caccatgcgg cccagggccc gccgcagctc 240  
cttcagcagc cgcacgggtac gcgagtcacc ctccagccgc agcagggtcac tgctgctcan 300  
tgagatgggtg gcccggcgcc cgtcatcacg gatgtgcacg tccccgtcgg tcagcagcag 360  
cacagctagc ggggtgcacct gaagaagagt cccggacgaa anacgctgcc attggacttg 420  
actgccatga aatacgtcag ccacgcgctc cgtaaccgtg ttgtaancgg ttcgttgctc 480  
ctgtccacca ggcccaagct cttcattttc ttgcaggcca aggttcncc ttattctcac 540  
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<210> 9716

<211> 584

<212> DNA

<213> Homo sapiens

<400> 9716

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tacaattaaa ttaagtccat acttctatac tactttgggtc tcaacatttt taaaacatca 120  
attaattttg aaaattttaca atttaacaac atgacccat caataacaag cacattttgt 180  
agtgaattaa agacacattc aaccatgcaa tccagtgttc aataccttaa tgataaataa 240  
caatgctgat tgacttttat ttgaaaaat cattgaaaac tggaataatc atctgagact 300  
cacagtgatc acaaacatgc agaaaaaagc atacaattct attcttcctg aaggaaatgt 360  
acaaaatgcc cactttttta tatagggtca atatgccaaa ttacttatat ttttcaatcc 420  
atcatcttct aacatttggtc acttaaattt ttcttaaagt acaaagtgtc ctgttaagtt 480  
gtnacagaaa atgaaacccc actccttcng tctttaaaaa ctccgtccca gtccccccct 540  
aatanccgcc tttaattaaa atatgactcc ccgtggaaaa atnn 584

<210> 9717

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9717

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cattctaagg nactgttctg gtttgaatgc aattccgcaa ganagaaaag agaagccatt 120
acattctgta tttttcatct ctacattcag actcctccta tattatatgt ttattgctac 180
tgggatatca atttgagccc canacttata gcagcatcat atgttgacct ggatgacaag 240
aattaaagat acatcctggg tctagcaatt ggtataattg gcacttaatt acaaactctc 300
ttgcattatt ctccacctgt ttcccaactc ttgtttaact aaaaatatta taaaatcttt 360
atgagcctga tccatgaatt atatttcttt actagcttcc actaagccta naacaggact 420
agttaggcac atagtaaata cccccaaag tatttatatc actctcgana acttcaatgg 480
aataaagact atacttttcc taattgtant tcnaggaaag gatgactgaa cntcttcctn 540
aanggaaaat ncctgaattt tt 562

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<210> 9718

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9718

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ggtaaaaaca gaaaatttta atttttatat agttttatta acaagcacac agagaaaacgc 60
tgatatccct acatgttgaa agtgtcacga taatattctg aaaagtacaa aattcaaatg 120
tctaaatttt acatggtaat gcaaaagaaa aaattactaa taacaagtat attttattaa 180
aaacttcatt tatcatgaaa attagtgaga ttacaaagat taaactataa ctgaatttca 240
taccctaata ggtcaagtcc ctggtctagg agcattagag aggactctct gagcttctgc 300
agcaacttcc ttagctcttc cttagaaaat accaggtaca gtttgtggcg ctgagaggat 360
accatatctg ctaactgtag gcattcctga tactgaccag tactgtgcaa tatcgtatga 420

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agcagaaaac caacattggc ngacaaagct ttctcagtaa gaacatttga tgtgttcctt 480  
cctgggtctcc tttaggnatcc tctctaacat ccaccatccc cctcctntca anaaacaaca 540  
agaaattttt natttttnc cccccattcg cagtt 575

<210> 9719

<211> 540

<212> DNA

<213> Homo sapiens

<400> 9719

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tggangaagg gggcttattt ctgaatctcc aaatctanaa tggtagctgc cacacaaata 120  
tgtgctccat aaacaaatgc actttttctt ttctgcaetc cctgggttgc aggctgcatg 180  
cnaagcacgt cctcaanggc cagggatctg tctcaagcct ttttgaaaac cacccttttc 240  
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atgccattg ccnaagcctc angactgaat cacatttttg gaatcttccc aaggataacc 360  
aatnngcatc attattctac agcgtatgctc atgtataatt atgattatta tcctatatga 420  
acnatccatt gctgctgtgt aattccaatg ggtaattact ggcctctgaa gattgaactg 480  
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<210> 9720

<211> 567

<212> DNA

<213> Homo sapiens

<400> 9720

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tcaaattact ttcacattaa ggaaaaaaac ttctaaaaag gaaaacaaga aaagcaactc 180

ttcagtttca cataattaaa agaacaggag aaagcacgca agctacatat agctaaattt 240  
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 ccctcccca aaaaagtttc agtctagtct ccaaacttgg aangcggcgc tcgctcctgc 420  
 tgccggtgca attcgttctc ggtcancaac tggaagtict cggcgcgcac cgggtcaactc 480  
 caactccact cccgcaaaag nccgttttcc caccacaacng nttgtctcaa ccgaancngg 540  
 tnttctctc cccctgccca aaaggnc 567

<210> 9721

<211> 578

<212> DNA

<213> Homo sapiens

<400> 9721

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 caaaacatgt tcatatatat ttgtgtgtgt gtatitttnc ccatttgttt tggcatttcc 180  
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 gggcctcaca cttcttggtg atttgcaa atgcccttctcc tctttgtaag tataagaaat 300  
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 ctctccatt gncncctccc cccagccctt gggaaccacc aatcctattt cctgggtctct 540  
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<210> 9722

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9722

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tatgtcatcc atgcttgccc agttataatt ttacaatata attgtatttt tcattgtact 240
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aaaaataatt tttcagtaac tccaaaatac ccacatgtac ctcttagcag gctattccaa 360
tatcaaaatt ctttttcttc aagtaacaag ttctcaatcc acaccattcc tgatcacaga 420
tataactgat atgcagtttt ataaacagct ctttacncct ggtnccaatt ttagcngggc 480
aaccancctt cctgatatac ccaaatttnc ttggcacana atcntccata gctttggg 538

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<210> 9723

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9723

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gcctgttgta naatattgtt ttttctggg cataaattgt tgaatgatgc aaaacaaatt 60
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tcttcattta ngttcccttg attggggaca tgggtaacta acttaaaca actaccttac 180
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ttattgaatt actctgtgct tggaactgtt ctatgcattt tacttgtgtt atctcatttg 360
atgctcacia caaccttggt aggtaggtat tattgttata atcatcatcc ccattttaaa 420
aggaagaaat tgangcccca agaaaatagg taccttgccc aaggtccnc actgaaaatg 480
gtaggtttgg aattgaccna aacntctgac cagattttta nactaantcc ggaattttaa 540
ttggttngct cctatttaca atcctatac 569

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<210> 9724

<211> 566

<212> DNA

<213> Homo sapiens

<400> 9724

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aagccagtta taaaactata acttcacatc aaaattttaa aaagttaaaa aatgtgtttg 120
aatatgtaca tatcacacag aagtggttga atgttcttgc anattgtgtt gctggtcana 180
ntccagtcta ctttccactt ttaaaactgg aataggctga gtcttctgat cttgctgtan 240
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aacanggtgg tncgttttaa gccttatatg ccangctaaa ctgcaccgc cnaaactgtt 480
ttgaactgat gaatgacttt ctaggganga aattaaatat cattgtcccc aactgaaatc 540
ncacntaaca aatgcctccc ccnct 566
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<210> 9725

<211> 535

<212> DNA

<213> Homo sapiens

<400> 9725

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gaacaatata ttctaagtct gtctaaaaca cagctaaatt attttcttt atttgtttat 180
acacattcgg taatttctga aaagcaagat ttaaaaatat ttattaacaa actaccaat 240
tacaatgact gttctcccat acacgcaact attttctgta gctgtatctt cttacctcat 300
tccactttaa ctctgtatac cgtattgatt tgtgatgana tgattatta tganaactct 360
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tagggagttc tcattctcca tttctcatca attcaaacag caacaccttt cacaanataa 420  
cattaattcc cttggcangg caaaaaactt aagtttggtt aaaaagcact cnctgaaaaa 480  
catttttaaa tttataggtc ctnttaaatn ttttcnnga aaacgnatga ctccc 535

<210> 9726

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9726

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attaaaatta atttgtatct gataattgtt tacaagttat gaaattcagt gatgatttac 180  
aaaatccaaa cagacaatgg atacctaattg ccaactgagct gtaaaacaaa agttatgctg 240  
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ttaagaaatt ttagcccttc ctctccata attgcattaa taaatccctg gcgcctttgc 480  
tgcaactgcca ctctccaat tcnctnttt gtcncaagg aatntttggn gaaacnctc 540  
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<210> 9727

<211> 598

<212> DNA

<213> Homo sapiens

<400> 9727

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ttaaaatcaa tggacttttg ataattcatt ctgtggtgtt ctcagtacaa atggtacaca 180  
 cctgatttga aacatacaga aaaagtgtna actaccgcaa tctgaattgc aagtattaat 240  
 ttcatggcac tccaacgact atgaaatttc tttcacccaa catgtnaata cttgttacaa 300  
 aattctataa gaatttttca taatctctgg atgtagagt tggatcactt ttcagaaaca 360  
 gcaactacac acttcgccat gttatgactg attaataaaa agaattgttn taaaaacccn 420  
 tccttacngg attaaaaaag tttttaaaga aancntatit gtgantggca atgttncccc 480  
 ccttttgaaa ttttaaatit ttttcggaac cngggtttgt tccctattaa aatttccaaa 540  
 aaaccgtccn atggnggggg tgggtggtcc ctttggnaat tnaaaacccc ctttagnn 598

<210> 9728

<211> 381

<212> DNA

<213> Homo sapiens

<400> 9728

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 cacccecaaa gcctttgcat tccctttcca anaaggtggc tgtttactgg ttttggcccc 120  
 atgtgcaaca gtaggccttg gtatgatgct gccataacac tcccatgtga cactccaggt 180  
 gacatccaag tgcaagtcta tggtcagctc tggacancan gggggaaggt gaggaaantc 240  
 angctgttaa attgaanctg ggcaggggccc tgnctggctg gaaatgtgtg ggcaagggtga 300  
 gcangcccca tgtgcacccc anctccattg cccactgatt tggctnaacc ccantttggt 360  
 tntggtcaaa ttaaangtcn t 381

<210> 9729

<211> 551

<212> DNA

<213> Homo sapiens

<400> 9729

anaagcactg tttccctttt tatttaaag actggatctt gtgttctgag gaccacttat 60  
 aacagaaaca cganaactgt tactggtaaa attttgtgat ggcccaccag aattaggaaa 120  
 tgaactagag cacaagccat tttcaacagt cttcagtagt aagtcattcg ttggaaaaac 180  
 aggcaagctg ctacattcct caatggagga agttttggag tttgacgtcc tattctgggt 240  
 ggtcagcaag gtgtttggat ggcatagagt gtgcaacagg ggtggtacag ttggacttgg 300  
 catcacggtt gcatttactt gtgatgcac agaaacacaa cctgttgaaa catgaaaaaa 360  
 gcatttcggc accctcaaag gtncctggga atgccaccat tttccaaac ctgtttaata 420  
 atttcctac cttcttgact gacactggta ttaaatttag tcccccaaa tcaagaaat 480  
 ttttttgta aaaatgctgg cnaccaattt cnccaaaaaa cntttaaat nanggatntt 540  
 taaaacctcc t 551

<210> 9730

<211> 366

<212> DNA

<213> Homo sapiens

<400> 9730

gttttaccat taacatttat tgatgggatg gataaatata gattgagaaa catacttgac 60  
 agcaagatat caaactgata gccagactat aaaatgtata catccttttt aaattttttg 120  
 aattttttta caaagagccc ttactataat ggtcacttac ctcctatcat tcacataaca 180  
 gcagtagata tcccaggggt agcatccaga gctgaggtgc cccaaggaag acagaggcaa 240  
 tggcagaata atatgctgag aaaggactct taagaagcaa tacnaagaga acagacnaaa 300  
 atctcncnc aaaattgtac ctgagtga aattggtaaa ntgtttnact ttnttttttc 360  
 ctttcc 366

<210> 9731

<211> 521

<212> DNA

<213> Homo sapiens

<400> 9731

aagccaaagt ataatttatt ggaaanatac agtttacata acagcanana agngtgatga 60  
 accagattca gaaagacaca gggaacactt tagcttctca tcttcaatgt gaataaacct 120  
 caatcatttt ctttgcatta tttcaaanaa ttcattctaatt tagcttagtt tgggtctcat 180  
 ccttattaaa aagttaaggg aagtagctga caatctcacc aaagctctat acaattgcan 240  
 atganttaat tctctaaaag ttaactgagg tgctaccact agaaaaaaag aaatggaggc 300  
 aagacagata aaatcnagan atggtcntat tgatgaaaca gtatgtctta aattttccta 360  
 tgctccnaaa tagggaaatt aacagctacc ttaaattaga aataactaag tgaacagttt 420  
 cctcnggtnc atttagtgaa gcatttggtta gantcctttc tcaatttcct cccattatt 480  
 gttctattcc aattctcncc tcnaaaaaaa nncactttta a 521

<210> 9732

<211> 584

<212> DNA

<213> Homo sapiens

<400> 9732

cttttaaagc agaaatgtct ttattgtttg aagcatgaca aaataaaatt gataggacat 60  
 ttcatttctt acttagtctt ctcaatgggg ttataaaaat acaatgccac ttagtttttg 120  
 taagctcttg aaaatgtcca gaagctcaca cttagtatga tattaaaagg cacttataac 180  
 acacaataag atacttagaa acccatctca tagatacaat tgaaatttct ttgagaaaaa 240  
 tttctaaata tagaaataaa taggacggca ctatttcttc ttttccaaaa cacagaatag 300  
 cattttcccc atgttaccta tacacacat aaatgtggac acctcctccc attttgttc 360  
 ttgatacagg ttgataatca agctgaaatt aatttgcttg cttttctcna tttaatctca 420  
 atttggttta aaataaagca aaattcctaa tttgtttnc aggatcttta aaatacccg 480  
 cttatttcca ttttggtttt aaatcccaat cccttaatta ggaaaataag angccnaant 540  
 ttaaaaattc ttctatttac tgcccaatcc cccaagcaca atnt 584



<210> 9733

<211> 434

<212> DNA

<213> Homo sapiens

<400> 9733

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gaaactggaa taagtgttta ttttctatta ataaaaatga attgtgacaa aagtggactc   60
tggtttcccc tccccctac ccctctggga taaaaatttt ccagcattgc caggagcttt  120
caggtacaca ttaaagaata aaatgaagtt aagcagctgg agtataggat agtatttgat  180
tttcaagatc acccaaagct gcactatcgt cccaaagctg accaagtaga ataaaaagaa  240
aaaaaaaaaa aacaacccat gcgcaaanat anacatttgc ttgatctgct ggctcagggc  300
caaatgttta atttgcttct ccaaagtcac tcattctcaa aantctgatt ctgggaaact  360
gatgccncta ccctaaaacc ccnctgacca tnttattgtg catcagttnc cncctgtcca  420
ntaagcattt atcc                                     434

```

<210> 9734

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9734

```

aagaanacaa ttttaataag tatctacctg tgtcagttac aacaagtgca gacctgcctg   60
ttttcatttt ttttaacttt tcccttctg gaaagatacc attactttgt cttttagagg  120
tattgacaaa ctcagtcaat tcacacttcc acattgatat gtgatgcagt cttgaatgag  180
aatagaagtt tgaaataaaa ttgcagtctg aaggtttgga tggcactgaa ggtgctgcct  240
tgctaaacgt anatactgaa gaagtgtttt ttgtgcttga aggcccctga acagtggagt  300
ggtagacacc attgatttta gtgttactgt gcaaaggatga taatganaaa naattanttc  360
tgtgtggatc cgcaaagcat ctgtgtttct ggtgcttgct gcactgctgc aaaatgcac  420
tctgaaatca gtgctgctct nctcancctt atcncncnc tgggaaaagg ctggaaaaaa  480

```

cctgctggca cactgttnac catgggccca ancaancct

519

<210> 9735

<211> 353

<212> DNA

<213> Homo sapiens

<400> 9735

aagcatttcc ttcctttggc ataaggaatc ccaccttgg aatcagccat ttttccaaag 60  
agccagggtt cctttcagtg cgaatgttgt aagaaaaacc aagatctgag tcctaggtgc 120  
tactaagtct tagttacatt ttggtgcact gcgcttaaca caccattact ttataaaata 180  
caaacaagag agatagttca aataaaatct aaactcataa ttacttggtg gtaagacgac 240  
tcatacgctt taaactctcc tcaaataat tttactgccg gttgatagaa naacctggat 300  
ccccacccca attcctaatt cctaaatatt nccccctccc cccnancnn gct 353

<210> 9736

<211> 515

<212> DNA

<213> Homo sapiens

<400> 9736

attttacaaa tccaatattt attttatctt gtatgtacaa aaagtaaact ccaagtgaac 60  
atcaaatcaa atctaatacct ttggccaca tgactggttg ttctttatct catagttaca 120  
atgaatcata taaactgtag actgccacta ccacgatact tctgtgacac agaaggaatg 180  
tcctatttgc ctatctatct gaggaatggt aaatagagaa aaatagatta taaaacaacc 240  
tgagggtcac aggattctga nataatccct ctgttaaaaa acatctgaac agcaaatgtc 300  
caatctgtaa taaaatagtt aaaggtccaa gtcaagtcca cttctacttg gctggcccag 360  
cacaagaaat ctaacagcac ttgtaatca ttttgctttt ctaattttcc cggaagacat 420  
gggccattga catataagga aaaaaaacna aaaccaaaaa cgantaagtt agttgtgtna 480

tccnaaccng tganttccaa agaaaanttg ccggg

515

<210> 9737

<211> 466

<212> DNA

<213> Homo sapiens

<400> 9737

ataaaacaat ttccatgttt accaaatgca acacatttcc ttttctatta agaanaaaaa	60
gccggttgca acccactaaa gtgatttgat ggccaaagaa taggtagcaa tttgcatttt	120
gaaaaatact tatttaaata gaaatttgtc agacatgtag aaaccagtca cattgtagct	180
ctggcagatt tctgcaggag atccagtgc acatttcatg gtcctagaaa tggttttcct	240
tactctttga atctttcacg gttgatgagg tgggtgttgg gatgaaggcc aagggaanan	300
agtggagaaa atggtgatgg gagganttta ggaggccaag tcttaattct gctcaggcag	360
aaaacagttg aantgtctgt gatgcattgt ccanacacga atgagacacn naccctggtc	420
tatggcggtt tataatccaa ggtgttgctt cntattaaac ngganc	466

<210> 9738

<211> 520

<212> DNA

<213> Homo sapiens

<400> 9738

gaagtttggt gatgttttaa tgaccaagt tagggaaaag gatgaggaga gatcatgctg	60
ttagcaggct ctggggatcc tatggtcaca tggaaagagg gattcctcaa caatgagggg	120
tgtggtcatc tccataaatt gcagacagac attgagggtca gggagacatc ttcccacact	180
tgcaaaatct tcatanaaca tgggtggaagt ggatggacaa agatgtatgg tgttggccat	240
ttattattac cttgggggaa atgccagatg anctgatact gatcacggtc agattttgga	300
aacganctga ggatanccgt gcaaccanan ggtgctctgg tattcattgt ctancaccaa	360

gatgctcana tcaaattggt tgccgtcctt gaaanaacac attgtnggca tctccccctca 420  
cacttccagg cccacacac ntggctgtcn atnaccaaac aatgggcca atnecccccc 480  
aaaatggaaa ggcaaattct gaatttcnncn tcccccccn 520

<210> 9739

<211> 518

<212> DNA

<213> Homo sapiens

<400> 9739

gcactactta ccagagggtt ttatttggtc tctaattctc atcccagcac agcccagagaa 60  
ttcagcaaat gtcttttaggc aagtccaaca aagtatcgag gtcagtttct cacttctctt 120  
tccttataaa aatcaagcct ctatgacttt ttgtctttcc agtgtgagat ggcaaaaggc 180  
ttcattgggt tctctgcctc ttagtagcaa tctctttcct gatccctttg tttgaattct 240  
tcttttattg ctctatacct agaatttaaa aatgtcctgt cttttctctc cagtaacaga 300  
cctgacctgt tgcaggtggg ggagtctgcc actganaaac agcaagaagg tactgggttc 360  
ctccccctt tttggcagtc tgggctggct acccttcccc ccatcttggc anaaaaatgg 420  
tttctgacce tncctctggga tgggaaatta ggaatnaaga aaaggaaaag cccacttttt 480  
tgctactgcc aaaattgcat tgcncncttt ggantntn 518

<210> 9740

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9740

agtgtgant acatttattg aagantctct ccctgtataa gcccatgtta aangtctcag 60  
cactaacaca agantcnaaa aggaagccca catctctctt tcatacagga tttgtctgaa 120  
tactatattc ttccaaccag tgagtaatct caaagtgtga tgggtgagtt ttacatantc 180

ttctttgttt cgaatccaat tggctgattt gttaccattc tagaggctga actgtatgaa 240  
gacctcaact accattcaca aggtgcagtt aananacttt tggacagttc acagtgtcaa 300  
caaatgtcnc aggtccgac caagtataac cacatccttt ggaaatcctt ccatttttgc 360  
aatttcaaaa catcctaact tgctgtnaaa ttcccanaat tcctttatcc tccgggtcccc 420  
ctccccaaaa aaccnccccg ggaaccttta cctcccatn aaaanaggaa ggcaaccctn 480  
cttnccttttg gccncccttg ggtcagttac tttttggtga atntccccct ttcccaaaaa 540  
gggaatttnc cgggaa 556

<210> 9741

<211> 487

<212> DNA

<213> Homo sapiens

<400> 9741

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aactccaaca gataacagaa gggcaaaagg acaggaacat ctgatcaaag aaacacagct 120  
accgatagca cacaaatatt caacctcatt aataatcaaa ggattaggat gcacttcttg 180  
cttattcaat aaagttaata atttctaatt tttctacttt tcaaattgtac tcaaattgtgc 240  
tatttttagt aataaaaaac tgagtaatta aaaaaacata gaaagtatga aaatttctgc 300  
caatgcagaa atcataaaca gcattaaaat gaatcaacac ttgtatgggc agtaagggtc 360  
agaccctaa aanccaattc attttgcctt ggttcctgan ttttattatg gggattgtcn 420  
ataaaggana aagttgticc tgatttcat gctgacaatc ttccangtat anggggggtt 480  
ttntttt 487

<210> 9742

<211> 494

<212> DNA

<213> Homo sapiens

<400> 9742

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gttttttttg gtcatactac atttcacttt attattatta acatttatca tacacggggt 60
actattccaa tctttcatgc agacaaaaat aaacaatata aaatacataa tgcactttga 120
taattttaac catacataaa atatgggagt aatgggaagc tatgttacat ggatatttta 180
caaaggaaaa aaagatgact ttataataa cacatccaga tgaaatttat cattaaattt 240
tggatttcat atgatgttaa gtatggatat attcaaaaca attactattt atagaaccaa 300
tttgatattt tgtcatttaa aataatgaat actatgtnaa tgagtactta taaaaatatt 360
tttaggcaaa aagctctggt ctactcattt acttgccagt tacaaaaata tatattcntc 420
tgaaactcna ataaatttgc ttgangnntt agatattcca attccaatgt ttattttcna 480
aagcgtccta ncca 494

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<210> 9743

<211> 534

<212> DNA

<213> Homo sapiens

<400> 9743

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anacagagtc tccctctggt gcctaggctg gagtgtantg gtgcaatctc agctcactgc 60
aacctccacc tcccagggtc aagcaattct cgtgcctcag cctcccaagt agctaggaat 120
acaggatatgc accaccacac ccagctaatt tttgtgtttt tagtaaaana cagggtttca 180
ccatattggc caggctgggt ttgagctcct gacctcaagt ggtccaccgc ctttggcctc 240
ccaaagtgct ggaattataa gcatgagcca cgctaccag ccaccctag gaaactttaa 300
tgccacaaat gtattatata tctgtttatg tactatggcc ctttgaaggg tcaaaaacca 360
ttgttatatt caagattttt ttacaccttt caagantcaa catttgcctt cttgcggtag 420
tatctcccat tgaaaaatgc atgctgtanc gcatgttaca atatccanan tatattttaa 480
ggtaaaaaca ccaagggtgga aaaanantat ttacantgcg ctaacacttt tctn 534

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<210> 9744

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9744

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cataaataag tattataact ttattaaaat gaaaagacaa tattcaaaat aatgcaacaa 60
aatgaataaa atcctttgtc caatactgta cacataatgc agaaatcagt gcatttttct 120
taagcatggt ttaaccttca tttagttcat actaaaatat aataagcttt aaatagctca 180
aataatattc agcagtttaa actgtaaaca gcttgtttaa ctgttaanag aacattgcag 240
taatgtacct ctgttagtga gcaccttctc ttctgtgctt atctcttcaa gataaataca 300
tggaaggatg tgaaaatcgg aacaccaact atgtgtctca ctgcatctaa gtgaagcacc 360
acagctgtga gagttttcna agcaaaaana ngctgatgtg acctccggaa ticanacata 420
ctgagctatg ggtcgnaaat gttttactta aaaagccaac aatcccccg gaaatctgaat 480
gggaacngcc ncccngggcn gcctgtgttg tttgtttatt aaaaccnccn 530
```

<210> 9745

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9745

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ccaaatacaa ctttgggaatt agtcacaaaa aatcaacata tattctcaga aattgtacca 60
tttcctttgg tctacaatcc acgctatagg aggttcaata taatattaaa taatgtacca 120
tttaccctaa aagtaggttc tagaaaactg actattagga ttgaataaca aggctttaat 180
ggctcaattt tcttatgatt atacaaacat ataaatcttg aaaaggtaac gccatttagt 240
aaaatccata aaaataacag ttttgccaca gtgcaaanaa aagttcattc agtttgattc 300
cccatgccct cgacaagcag ctttctgatt anagctggaa aacacaggct ggggtgcagt 360
gnacccccgt antcccanct actggggagg ctgaagtgga aggatcactt naccaggaa 420
tttccgaaca tctgggcaca taccaaaacc ctgtctcttt ttttaacttg aanaaataaa 480
ntctntactt cntnccttga aacntgaatt ttctacgaaa atttgtnaaa attactttta 540
```

aat

543

<210> 9746

<211> 545

<212> DNA

<213> Homo sapiens

<400> 9746

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gctattatag tctcggtctc tccttgtagc tcaactgatt ttgcaaacgc ttctgttttc 120
tgtaacagtt cctgcttttc tgtctgtagt ttggtgatct ccacagattg tgagtttaac 180
tganacttta aagttgccag ttcctgtttt aattctgcaa cttgttcaga atctctagct 240
gaaactattg ctgaanactg ttcatttggt ccagatgttt gggaagattt catattttca 300
atcatagagt ccttttcagt cagctggctt tgtaaaagtt cctgattacg ttttaattct 360
ctatctcttc tcgcaatcta ccaattcctt ctggctgaat gccatcatct ganccctca 420
ctgtaagaan cttgaatgct gatgtctttn ccantgtat tttaaaaaaa tatactggtc 480
ttgtgcncgt gatctgtgan actgctgtgt tacgccgnct gaaccgtcat ttganatttn 540
atgtt 545
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<210> 9747

<211> 518

<212> DNA

<213> Homo sapiens

<400> 9747

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gttttttgag acagtctcgc tttgtcacc aggctggagt gcagtggcac aaccttggct 60
cactgcaacc tccgcctcct ggggtcaagt gattctcgtg cctcccaggt agctgggatt 120
acagggtgtg accaccatgc ccagctaatt tttatatttt tagtaaanat ggggttttgc 180
catgttggcc aaactgggtt agaactcctg gcctcaaagt gtctgccac cttggcatcc 240
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caaaatgctg ggattacagg cataagccac cgcgccagc caacacttaa ctgatttctt 300  
 atttcctaataaaaaggatc tgtttggtat cctataatac tgatgcacct tgatttgctc 360  
 cgttcaccca nnaattcttc tgaaaacnct gttgttcctg tggtaggctaa tgttccccca 420  
 aaatggaaac cctntggcc anggaaaatt taaattaaaa ccnntaaaat ttaaaaaatt 480  
 ccttaaatcc gnaaccaatn acaccaaant tccttttt 518

<210> 9748

<211> 513

<212> DNA

<213> Homo sapiens

<400> 9748

agacacaaac atctagttaa ttttttctga ctgtaaccaa agtcagcaaa agaaacaaca 60  
 aaacttcagt gccctaaaaa tcctcctgga ttcnatgaca acacatcaat ggccgggcac 120  
 agggttggat tccttttatg aaatcacctt ataattcttc atcatcccag gacagtgcct 180  
 tttgggactg catgaatctt taatagctac accacatttt ctcatccttt aagttatgac 240  
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 caggtggagg gagaatcacg acatcattcn taaataactg tggantctgg gatgctggct 360  
 gaaagcatct ccangaaaga ctggagggcg antttgctaa agggctgctc actgctcntt 420  
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 ttaaaacccc cnttaaaac canccctgcc ctt 513

<210> 9749

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9749

gagtattcca gcattattta ttgatcaga ntaaaatata cttcccatca ctacaaactg 60

agcacaacta cagttgtcta cacattcata tttttgacgt gccaacattt tgcattctac 120  
 atgaaacatt tggtttaaac aaaatcttaa gaagtctcta tttgtttcc catcttcctt 180  
 cctgtcctct cccatcctcc aaagatgttt tatattaact gctatgagat ttatttgccg 240  
 gtcacgtnat acggaggaca gcagggaaca acacaagatt taccatgcct aggggatgaa 300  
 tggcaaacc cactttggct aatgtcattg agaacaactt ggaagcgtga gcagagatat 360  
 ctcatgaagt ggcagtgaac ctacatttcc atttatcaga agcnaacatg gaaggttaca 420  
 tacatgatga antattggaa gttaaagact tnagacacca aatccctaatt ttnaaagaac 480  
 atgccnctg natttcaact tgcna 505

<210> 9750

<211> 608

<212> DNA

<213> Homo sapiens

<400> 9750

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 taatttctca ttgtgaattg attgggtccc tgtaagtcca gancctgtcc tgagtccttc 180  
 atctgaatga ggggtgaaaag actgagtttt ctgtcccggg tgacaaggac agaatctgtc 240  
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 acactattct atatcanaca attaaatgtg agggatgaan ggtgaacccc aactggtgcg 360  
 taataacact taggattaaa atgaaaatat gcaagttcca gtgactttca aatctggcaa 420  
 caaatcctaa gattcccacc cctcctgca acaatgattc naaaatacca tatttttttc 480  
 ctctccctct cctccatcca taattaccan ctgaatgttc cccatnttct ccataaaacc 540  
 cacacccaac atcaccttgg gnccaatntt tanaaaaatt tggcttccgg tcccccttg 600  
 ccctttaa 608

<210> 9751

<211> 503

<212> DNA

<213> Homo sapiens

<400> 9751

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gtaganccat tctatccatc cagctatgaa atcttctcta aaagcctctc ctctgggtgc   60
ccattgcact tttatctgta ctgacttggg ctacttgtca gttgtatatt tgcctgtatt  120
gtctcccata ctgaaacata aaatccccgt ggacaagaaa catgtcttac tcatcttagt  180
atttctagca cctagcacag tactaggcac acagtcnata cctaataaat atgccgaata  240
aatgaaagca cattacggaa tggaaggtag aaagccacag ttggacattt tccataatag  300
tgtattttca acccttacag aaatagactt gcagtggaaat gtctactatt tagcagctga  360
attcagactt ggggaanagc ccanaaactg ctacacttca cagatgggtca tttggaaaan  420
aaaattaatg canaaanctt gtgtactatt taataatanc tcaggaatag gtccaaataa  480
caaatecnct gatnccccga naa                                           503

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<210> 9752

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9752

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cttagtatat actttaatgc atgtttatgt gcaatcttgt tagtgggtat acaagtttgt   60
gaanaacttc tcatttcaat aggcagttaa tgtaatgcat taaaagcctg ggaatttggg  120
gctatatttt tcctttctga ctcaataatc ttcaaanaat tcataggaaa gtcagtactt  180
gcanacaagt ggtagcttg gctaaaatgt aaaaaacacc cagaaccac aaacactca  240
gaggtttagg aaaatgtttt aatgcttaaa angcaggatc aantgaanag gttacanaaa  300
tcagtgtctc tggttgggca gtcaaaaaan caggctcaaa ttctgtgact cactnctctg  360
tgtctcggtt ggaaatnaat gggatcctg gttccacact tcccacacgc tgtgatactt  420
caaactcctt ggggtgaaggg nccttctca cccaaaatct tgattgtgaa cataacaaan  480
aaaacatccn cctccacaaa aaaaactcct taatgacntt tgatccntga ataaatattc  540

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ntttaaaaa atnttttggg gggatcttaa aatttttgaa gtnttcccc ccgaaaaaat 600  
ggtt 604

<210> 9753

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9753

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ctgttttctt gtaataaagt aaatgcagtg ttcatttttag taacaaaaca ggtcttcact 180  
gggagggaga aatgaggaaa ttgaccccg cgtggctgan gcctggaatg agctccatgg 240  
gcaggctcca ggaatgatgt aattttgcct cctctcaagg ctggcctcaa ggaggcctga 300  
ttccagccct ctttgtctgg ggctgccctg aaacctgtaa aaatccttct gaccanattc 360  
tccagacact gcaaattctc acccaggttg ctcaaaatcc tgnaaaaaac tcaggtttga 420  
ttcaaacggg ctaaatntgg gttctgcttg accactttct gtntttcatt tggcaattcn 480  
cttccccctc ctnaaccttt ttcatttctg cctatctaaa atcaaaatcc cncctnatt 540  
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<210> 9754

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9754

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cctgaagtga aagcagtcct ggcaacttaa tatttgccctc cagatgggtc tctagtcagt 120  
tcatgctgaa acacagctct gccaccaca acttgagct gaccagcccc cagggaaca 180

tggaananga caggacacac ctgttctana aaaccaggtc ctcagtaaac actgctggga 240  
 atgaaagcct aaaattatac agtactccat tcctgtgaac gggccaaagg atgacgggca 300  
 acacagggga aacctgtttt cacatttggt catctcctca catttcgtnt ganctggang 360  
 aaaccgtgtt acacaanggc ttgctttgcc cctgnaaact ggcctaaca tattatctcc 420  
 aggcaaaaat gccatgctca ctgcaaacta tggaaatgan gtcaaaacaa aatcaantta 480  
 ncccttgatg ggaaaaantt ggncccaaaa acccatttct aaaaanggtc ccctgnnt 538

<210> 9755

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9755

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 cctacaaaaa gtcctttgtg gcaaactact atganangaa actccatcaa aagtcccaat 180  
 tgttcatttc atttctactg tgctacggaa gcctggtttt gttttaaggg ctaacgtcct 240  
 aggttttaag caattttttt tgagctttgg ctaccagct aacaagcagt aaaataatca 300  
 actcaaaact acgtctgatg ccaaagctct aactctaaaa ctcaatatan antttttttt 360  
 ctgtgacacc tcccctcgtg tctcccctaa ctgcgactcg cattaactcg ctgctgggtc 420  
 ccantggan ancacaaatt gcacctgctc cnaaacccaa cggggctcaa tntctccgca 480  
 ctcaacctcn gctgcctnt 499

<210> 9756

<211> 607

<212> DNA

<213> Homo sapiens

<400> 9756

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 taggcaaagg tctagctttt cagtggcaac ttgaagaaac caaagatgaa tgatgctaaa 180  
 ggaatgaccc tttggtacct gttttaaagt acttctggcc cccttctttt ataaaccccc 240  
 aggagcccag caccacacct tgttacccta caatgatcac tcacgctcca cgatgtcact 300  
 aatgtaataa ctgaanatat gggccagttt gtccatgtca cgttccgact tgtangtcag 360  
 ggtgaactgt ccattaatgc tgtaaaccct gaccaacaaa gcagaaatta cnatgttaac 420  
 tccaaatcct aaactttttg gcccctttct cccacacat caggccagtg taaangaaac 480  
 anaccttca agctgagtaa tcctttatcc attaacatgg tgttacttaa aaactactaa 540  
 gggccagttt ggttgctgct gcccctggga aaccaaagga caccnccgc tcccaaaact 600  
 gganann 607

<210> 9757

<211> 509

<212> DNA

<213> Homo sapiens

<400> 9757

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 tctgactcaa ggtccctctg ggccccagct cttcccatga nacagtcaca aactgttta 120  
 atcagctctg canaggccag ccctggagca aangaggatt cagggccatg gaggggacct 180  
 actctgccct gttctggtca ctacttctct anactctcat gcactattgt ctgtancaag 240  
 tgacatttcc actggaanca cataaagatg gcgacagcct catttcttcc tgagtgaact 300  
 gaancccnaa aaaaggggag gtcccncaa aggggaaaaa accagggcc caccaacaa 360  
 ggatgctgaa ataaactaca tntnntgctt tctaggaac aacacaaaaa tctctactct 420  
 gaaatccaaa atnttaata tgggcncccc ctctataatt taactgtaca accttatcan 480  
 tcatttaaaa ccccccnncc nacaatanc 509

<210> 9758

<211> 434

<212> DNA

<213> Homo sapiens

<400> 9758

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aagtgagcag atattttaat atgctttatg ttaataggat tctgataatt ttagctttan   60
ttaatgcaac acacttcctt gggtncaacc atgacctctc tgagaactgg aaaatactgc  120
ataatttnaa aaatcagagt gtnatgacat tcccngacaa cttcaaataa gttatgtgag  180
gaggatgaac tatgggtagt cnagaccacc agtcataatt gtctanccgt agaaacagtg  240
actacttnna gatctgcaaa gatcanagca caactggctg aangtgcanc attctataca  300
tgtcctcatg gagcttcaca aaggttatna gatgaccacac tcactctggt tggctgtggc  360
catngacaga caccataaaa tcctnggatg tgggccantn ctgaactgng ggggcgngtc  420
tgaacttgcn ttaa                                     434
    
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<210> 9759

<211> 396

<212> DNA

<213> Homo sapiens

<400> 9759

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cccaggtaca acagcagggt cttttccaat tcctcaaanc gctgcatggg gtggggggcan   60
aaacanaaaa aaatnttaac attgggttcc accccctgga gctcaaggga aaacccttac  120
ccaaataggg actaactgga ggggtngaag ggaacaaggt gaaaggtatg ggtcctggtg  180
aaacaaaanc aggggggcct gaaaacacaa aacaaggtgg gtttggaggg ancacaccan  240
ggttcncgaa aggaaattgg ggacatttcc tattccagtg catgtcccct taaataaact  300
gggttcagga ccnttntgga agganaaccc nnggacaaaa aacaaancga gcacccccnc  360
cccaggccaa ccccatcctc tttaccaat tacaac                                     396
    
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<210> 9760

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9760

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caaacactcc ctacaaaagc cagtagtctt atatttacat agcatgatta tggtaattta 120
aaatgttaat ctatgataca atgttacttc agaaaacata taataaaata tagttgtctt 180
atagccatgc tcccattttt gatgaaagct agttagcaaa tcctaagtgt agtttaatac 240
tttaaaaatg cataacagat attcagtcag cattataaaa cctttaagac agaaggntgt 300
caagcagaat agacagaggg ctcatcatca cttatgtctg aatcttcac tactccttca 360
ataaccgatt tcttcccttt acaacaggat acaattaatc caatcaaaaa taccceaaga 420
aagggccagt taccaaaata gtnagcacc tgaagaaccc aaacttnttt aaggaatagg 480
tttttccggg taacattacc tggnttttcg ggaaatttgn ntcanttttt tttgggaaaa 540
aaagggttna atgcctttta aattncnaaa tttttt 576

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<210> 9761

<211> 496

<212> DNA

<213> Homo sapiens

<400> 9761

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acatctttat tgatgttaaa caaatctttt acatctttat ctatataatt cacgcactat 60
aaaattcacc catttaagat gaaccattca atgccattca atgcttttta gtatattcac 120
gcagtgttac atccatcatc acatctaagt ttagaacact ttcattgccc ccagaataaa 180
ccgtgttcct gttagcagcc actttccatt cctccctccc gccagcctgc agcaactact 240
aatctgcttt ctgtctggaa atggaatcac acaaagcctt ttatgtctgg cntcttcatt 300
actttttagg gccatataat attccattgt tatagctatg ccanatttgg tttatctatt 360
cattanctga aggggcattn gggctatncc catttctcaa ttattataaa taaggctgct 420

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atnaacattg tgtgcaantt tttctgggga nacatntttt catttgcctg ggggtaaana 480  
cccagnaatt gtancc 496

<210> 9762

<211> 496

<212> DNA

<213> Homo sapiens

<400> 9762

ctctaattctt gangtccact ttatgtcatt aaagttgatc ttcaatctct gatataccttt 60  
cttctgcttg atcgantcag ctattgatac ttctgtatgc ttcacgaaag tctcgtgctg 120  
tgtttttcag ctccatcaga tcatttatgt tcttctctaa agtggttatt ctagtttagca 180  
attcctccag ccttttttca ttttagctt ccttgcattg ggtagaaca tgctccttta 240  
gctcananga ntttgttatt acccaccttc tgaagcctcc ttctgtaaat tcgtcaaact 300  
cattctccat ccagttttgt tctcttgctg gcaaggantt gtgatccttt gcagganaaa 360  
aagtgttctg gtttttggaa tttcacctt tttgcaactgg ttttccctca tcttcatgga 420  
ttatctacc tttggtcttt gangcnggtg aacctccgaa tgggttttng tgttggaaat 480  
tcctnngtt naaatt 496

<210> 9763

<211> 514

<212> DNA

<213> Homo sapiens

<400> 9763

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aaggaaaggg aaaanttcta agttgaaact ttttttgagt gtcaatcccc gctgggacac 120  
acatattaca aaataaagat ttcttccgta aagtgtgtt tgctcagtga atcatgcgcc 180  
accacagaac accatggctc cacctgctca agancatgga ggangcagca tcggcagang 240

gcangcanga ntctgtgttt gggggctctgt ttcaatacca tctcctgggg ttgcccgtga 300  
 tgcanaagga atcttctcnt catggctaga cactcccca tgctctgctc caggctgggg 360  
 accactgcaa gctggangcg gctgggtatc anggcctggg caccctgctc ctcctcttcc 420  
 cttgggattg gcattttatc tctccttcac tcaaaacatg ggcangaaat ctcngcncc 480  
 ccnnaattt tccnnggggt ttcccctttc cccn 514

<210> 9764

<211> 456

<212> DNA

<213> Homo sapiens

<400> 9764

aaaggcatga ttgatagttt atttaataca tataacattt aaaacttttg ttcncnaag 60  
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 tatgatgaca aagatgtgta gaatcatgtc aactaccgt acaaatacgt aagcaaaaag 180  
 gtnaaacaat gaaaatttaa gaaaaaaaca atttattgaa gaaacacaaa tagccccnaa 240  
 acataccaga agatgttaaa cctcactaat gattaaatcn atgccnaata aaatgatact 300  
 gaggtngat ttgcaagtna aactaaagtt actaacaaaa tccaatgtta gtgaaactgt 360  
 gagaatatat gcctttgttc acattattgg caaaagtnen aatttgggggt ctgaaaggaa 420  
 atttaaataat gttcccnnta tgttcncnng ttcct 456

<210> 9765

<211> 476

<212> DNA

<213> Homo sapiens

<400> 9765

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 tctgtnataa tactatttct gatactgtat ctctgaaaaa tggctaacta gtcctttatc 120

natacattta aggcattcaat aataggtgcc actgaggaca tacattgtga agaaaganaa 180  
 gaataagtc aataactaaaa catacttata atgacaactc naggtgacat gaatatttaa 240  
 tgaaaattta gaatataaca acatatgact ctcatctgt ggacataaaa ggaaaaatac 300  
 agtaattcat ttactcatt acattttaca aaatcagccc aatgaagcag tattttttta 360  
 taaaaacagt aatttaattt caaacaata tattaccatc ccaatccctt ancctgggta 420  
 aatntttccn aatgggcaaa acntacttta ctgaaattca ntaccanncc atccca 476

<210> 9766

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9766

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 agatatttgt naatgagatc ttctcttttg ctactgtgta tatatattcc ttatattca 180  
 taaaactcn caacacatga cattcatat ttcatatgcc actgagaaga ggtgtctgtn 240  
 tncagaacat aggaagaaga aaaaagcgtg agaacatctg cttagttaga atctgatgag 300  
 gagagacgtg agagctattg ttctctctc tgctcaggcc tatcgagagg caactgcagt 360  
 ttttgcta atgttctcct gaggaattct gctcctactg ctatggatc ctccnangtt 420  
 gggcgtgaga acancctggt ccccttgaa taaatttaaa anaacattng gggggattga 480  
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<210> 9767

<211> 463

<212> DNA

<213> Homo sapiens

<400> 9767

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 tgtgctcagt ttcctataa gggttaagaaa agtttccatc aggtagccac ttgtttttat 120  
 actgaaagac taatctgctc caaatgctc ccaagtagaa atgacaggac tcaaaatccc 180  
 tttctaaagc ccaacagcta actttttctg actaatctct agcttcattg aaactggcta 240  
 ccaagattgc atttcaggct aacaattggc ttcttagtta aggcatcaca actgaaaatg 300  
 gttatttcaa caatggatgc tgtggatgaa ggaataccaa caaacttcta agaactctca 360  
 tcaaaaacta aagcaatttg ctttgcccca gtggcaggca gaaggaattt agccattat 420  
 ctcacaaact aggaaangan ttttggaatn ctnantanc ant 463

<210> 9768

<211> 536

<212> DNA

<213> Homo sapiens

<400> 9768

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 tcctgcctca gcctcccgaa tagctgggat tacaggcgtg caccaccatg cccagctaat 180  
 tattgtattt ttagtaaaaa tggggtttca ccacgttggc caggctggtc tcgaactcct 240  
 gacctcaggt gatccacctg cctcggcctc tcaaagtgt gggattacag acattagcca 300  
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 naagganatg cgatgttaat aattgttaca ctacattgtt taaggaacca agaccagaaa 420  
 aaaatccgtc cacattccat acanatgcca ttcctttttc ncntnttttt gatctgttgt 480  
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<210> 9769

<211> 497

<212> DNA

<213> Homo sapiens

<400> 9769

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gaacgccaaag cttttttttt ttttaattaaa aagaaaaaaa aagagagaga aaaaattcca 60
cattcattaa aatctctttc tcttgataat ttctggtttc cagctgactg gatgagtttc 120
ttctgtggct gtgtcatcct ctctgtatac tttaatgggt ttatcagctt cagctgttag 180
taatcgactt tcagactgat caaaagcaca agcaaattatt cctgattcac tgtccaaaga 240
cccaggttgc acagctgcgt gaactctctg aaaattgtag ccagttctcc agtcccaaag 300
atgcatgggt ccattgtcag ctccagatac aagcactcca tcagaattta ccgtcaatgt 360
gttaataata gcattatgac cggaaagatt ttgaatgaaa ctccatcag ggaatttcca 420
ctgctttatg ttatctggag aancanagc caatgtntta tgtcttgat gttaaancnc 480
agccnaacn gaatttt 497

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<210> 9770

<211> 598

<212> DNA

<213> Homo sapiens

<400> 9770

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gagacagagt ctgctctgt cactctgtcg ctctgtcacc aggttggagt gcantggcac 60
gatctgggct cactgcaacc tccgcctccc gggccaant gantctctg ccttancctc 120
ctgaataact gggaatacan gnacatgcca ccatgcccg gctcattttc tgtattttta 180
gtaaaaaac ggggtttcac catgttgcc aggatgggt ctaactccag acctcgtgat 240
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cacatactct ggaataccac tgttcanaat gtcaaattaa atacagtgcc aacactgact 420
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actgttantic canggctacc tactgttcta agttaaacg aaattntcta accccccgaa 540
tntcctaaac caatactcca aatctcctaa acatcttgga agaattntnt tccccct 598

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<210> 9771

<211> 607

<212> DNA

<213> Homo sapiens

<400> 9771

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gcctggcccc taaagtatit ttaattaagg tatatacatt gtgttttana cacttcgcag 180
cctacagtac agtgtaaate cttttttttt tttagagacga aatcttgctc tgtggcccan 240
gatggantat ggtgggtgcaa tcatagttca ctgcaacctc cgcctcccag gttcaagcaa 300
ttctcctgcc tcagcctctt gagtancctg gactacaggt gtgcaacccc acaccgggt 360
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tcctgacctt gtgatccgcc caccttggn ccccaaaant gctgggaatt acangcgtna 480
accaccgcaa cenggcctaa tttttttttt ttccatttt gggtcncctg aaaccccccc 540
nccccgttca aattaatate ccccccccc caccantttc taaaatagc ggacccccca 600
cttnccg 607
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<210> 9772

<211> 600

<212> DNA

<213> Homo sapiens

<400> 9772

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tcagactata acaatgctgc atagatagtg gtatacaagt tccctgactc taacttcttc 120
ctaacttaaa agttcaattt tcaagtcacc aggtagaaaa tgggtggaggc attatttcct 180
ctttctgagg ctataaaaaa atggcttcaa tggtgagaag gcaaaccatt taaacaatga 240
agattagatt atacccaat ttaattctat tcccttcttg ttgttattt ctcatagatg 300
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aaaatttaga atgtnataat tattggaaag gaataagaag tgaattacct cttaggagat 360  
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 atattatgcc taactaaaat tgccaatatg aatacttttt tacagaatac attacatgtt 480  
 ttccagaana aaaataacttg tttcctatcc cccgaacctc ngttaaaaaa aaatntttcc 540  
 cttaccngga tncgaaaatt ttttcccggt ggaacattac cccnnggggt tcaatctttn 600

<210> 9773

<211> 500

<212> DNA

<213> Homo sapiens

<400> 9773

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 ttacaggtnc ccgccatcac gcccggttaa ttttgtatt ttagtaaaa acggggtttc 180  
 accatgttgg ccangctggt ctggaactcc tgacctcagg tgatctacct gccttggcct 240  
 cccaaagtac tgggattaca ggcaggancc accacgcccg ganaccangt tcttgacct 300  
 agtctgtaat taactgattc gggctaagcc acttantatc tctgggcttt agttataaaa 360  
 tgaatnnaca ggactcaagt ttccttctgg ctccnaatgg ctatacttta aatttatattg 420  
 gttattccn aatanccaaa naaaaaataa atcttatcat ttctatcatt aaaaaaagg 480  
 nnatccttgt nccccttgn 500

<210> 9774

<211> 479

<212> DNA

<213> Homo sapiens

<400> 9774

aactttaacc taaaacttta attggaaaga caatcttata aaaatcttat aacatattct 60

agaaatggtc caaatactat cacaaatgga agaaagtcca gcttgaggag catccaatca 120  
 tgtgaggtaa aagtcttcta gtagaaccag catgatcttc cagaaaatta caaagtaacc 180  
 attatctacc ccgtcatctc cttcttgccg ggcatcccca gagctgaaga aagggaagaa 240  
 aaaaaatgga tttgtttttt gccatgaaaa atcttaacgt aaagattaat gcatcttgct 300  
 gcttaagana aaggtgttac tttcactcgg ggtaaattaa atactaggat tgagactaat 360  
 ctgttcacag ccaaataagg gtttactgaa gctccaacgt ttgaataaag accacttatt 420  
 gggaagacnc cccnaatnc ntnttattcc ttcctccac naatttttat taagcntcc 479

<210> 9775

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9775

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 aatataccgt ctgctcaagt acccaagata aganttacac agatcagggc anaagaccgg 120  
 gaagaatgaa aaaagataaa gggaaggaag tctccnctga agaaaaaag aaaaaaata 180  
 aaaataaaaa aaggtgcaaa ttgattacct tagtcctcct ttgtctaccc ctgggctcct 240  
 gggttaaaga catgtgtgca gccaaaatat antgtaggg aaaaaaacc caacacgtcc 300  
 cttcttgten caaaacccaa aggtgagcct caaatggttc tgtctgtcca aaaggtgctc 360  
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 gtggctgatg gtgggganac tggtttcccc cccccaaaag gctgcncnc ccccggtg 480  
 gtgggtgctc ccattcccnc cccccctgna ggcaaatttt ttcctggaa accccccctg 540  
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<210> 9776

<211> 483

<212> DNA

<213> Homo sapiens



<400> 9776

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cattagtaac tggctgtgtt ggggagggcc tgaggaaaaa ggcactctcc gcattgtagg 120
agaatacatt gacaagagca tcatgaaggc ccattcagcg tctatcaaaa caacaaatgc 180
atatgccctt agtattctgc tatttcactt ttgtggaatt tttcctacat atataatcac 240
aatcacatga aatgacatgt gtataaagtt attgattgca gcattgttta cagtagcaca 300
gtatcaaaaa taaccaaatt gacaccacta gaaaaaccag ctaaataaac tgttattccc 360
atcatgcaag gagatacttt acagctgtna aaatgaatga agatactggt tgttaaantc 420
ntatgaaaga ttttccnaga atttacattt tgaaataanc caggttccaa gcncaaatgt 480
ttn 483

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<210> 9777

<211> 412

<212> DNA

<213> Homo sapiens

<400> 9777

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ccagacacca caatgactta gagaacattt catctccaag agctgatttc aaattatgta 60
acagtaaattg aaagcactct gtaactggta aagcattaca aatgtcgtaa tattcacgat 120
ttaaatcata tatggatgat gtcataaata attctaataaa gttggtattt tcaacataat 180
cacatttttt aacaactaga tttttgttaa gcttttcagc actattccag aaatacttat 240
agaggaagga caactagtag acaaactgtc accttatttc ccaaattcac ggttgggaan 300
aanaactact tccactgaat gttaatgaaa cattccacna aatcccatna atctttcngg 360
acattcccng gtcnatggtc caagcagatt aaaattactt tccnatnacc cc 412

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<210> 9778

<211> 494

<212> DNA

<213> Homo sapiens

<400> 9778

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aatctatgac tacaggaaaa catttattta catgccctct acaaaatgga ttacaaaaac   60
atagtaacta ttaggggtaca tgaccttgct cctatcttcc ccattgtgct tcttctctat  120
agaaaaccca atatgaaatg acaaagagta ctgtactcag aataagaact tcatctatca  180
taaatgtncataataatc agtgaattgt catactcaag actcagattc aggaacttct  240
tcacagggc agcagtaata ttccacaaaa catatttgct catcttcatt tctaatacata  300
tactgtaatg aaaggaagcc tctgttatct gtccgaatag ataccttaca agataggact  360
aatgcctttg tagagggttt cagtaaggaa atcttgtatc tgttgacttg ggtctgaata  420
caatgaaatg ctctccatc aaaatctttn gganatccan gggggaactn cccgcntttc  480
caaatttaan ancc                                         494
```

<210> 9779

<211> 528

<212> DNA

<213> Homo sapiens

<400> 9779

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aaaaatccat acaaatgata ttattacta tttcttgttt aagccctcat gtatcttctc   60
tattgtattt ttggattctg taaacaaatt actgtatcat gaccaatact tgctcaagat  120
caacattgaa tcatggattt ggtgtcactg agtgcaagcc atgtgaggtc tacatgtgct  180
gggacatacc attcaccaaa ctctcagct gtttcacgac tgtctctatc aacttctggt  240
tgtctcgatc attcttctg aactgagcaa atatattggt ctttttgcta gtatccttca  300
tcttctccaa aanantaagg gctgtgtttg gattcacccg aaggtaacta aaantggct  360
gcccataatc agctangtaa gtagaccaat cccaaacat aaacangtca aggaattgtc  420
tgaaggtaa tgaatgctaa ctgcaaggtt tcccccggn aaaccnggca caagntccaa  480
actngggaaa atttcnctt taaaactttt aaaaatggcc ngcccant                    528
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<210> 9780

<211> 441

<212> DNA

<213> Homo sapiens

<400> 9780

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aagacgtagt ctcactcttg ctgcctaggc tggagtgcaa tggcacaatc tcagctcact   60
gcaacatcta cctcttggaa ttaagcaatt ctctgcctc agcctcccga ggagctggga   120
ttacaggcat gcaccaccac gcctggctaa tttttgtatt ttactggag acgggggttc   180
atcatgttga tgatgaaagg tcccaaacct gaaacctttc acatntgaag cgaacatntn   240
atcactacac tacaaaaacc cctcncagtt cctggcacia aanatattcc tgaaatntta   300
ccatctgctg tttttaacta ctagggtttc caatataaca aattcnactg cttttcaaaa   360
tttgantnat aaatacggna ggaaacacia tccctcaggc aaanaggctg aaccctcatt   420
tacgggtccn cncctaacc c                                     441

```

<210> 9781

<211> 503

<212> DNA

<213> Homo sapiens

<400> 9781

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ctttgttggg gagtttggca tctgttatga ctctctccaa caaggctgcc anaggttcct   60
ganagccata tgatctttga tattcaaatt cctctggact aatttgacgg caaatgatg   120
gagcanataa agtgatatcc atatcagctc ctgggtattt tatctggact ctctgtaaatt   180
ganccacacn ctctctata ggggtctgca aggccaaagg gactttcaaa atttcctggt   240
aattatccat caaaaacgtt accaatctan cagctaataa ctcatccaan tccacttcat   300
ccttggaca caaatgcaa cgggaaaatt tctgaacat cattnttcgg gtnccaaanc   360
catcacacag ggggtggcatc tctttgttta agcaaactct tgccatcatc ctcatcaata   420
actgtaactt tctctatatt tcnngaggtn ngaaaangcn ccaatctgaa atgcttcact   480

```

gccactttct ccctctntta naa

503

<210> 9782

<211> 409

<212> DNA

<213> Homo sapiens

<400> 9782

gattatttaa atagtttatt ttgttaatg ataggaatat ctcctcagta agttcaaacc 60  
 atttataac aggggaanaa taagctagtg ttagatctgg aaaagttaat atagcattat 120  
 cttgaaattt caggggtaaa aagtggttga ctggaacttc ncctttttta accaaacaat 180  
 gttnaataa acatctctga atagaaaact gtatctgggt cttttttatg tcaaagttaa 240  
 aatactttta taganaaaat tccatttttc tgcattctatt tagatgatat tacaataaaa 300  
 ggcantgtgg attgganaac atagctagtg agaatattan gttnnngtaat ttaaaaaaaaa 360  
 attanccttt ccctatgaaa taaaatncat gatccctta attcncct 409

<210> 9783

<211> 599

<212> DNA

<213> Homo sapiens

<400> 9783

gtataatgac ttcttttcct ttgggtaaat acctantant gggattgctg gatcaaattg 60  
 taaatctact tttagttttt aaaggtaatct ccacactgtt ttccatagtg gttgtactag 120  
 ttacattcc caccaacagt gtaagagtgt ttcttttcac cacatccatg ccaacatcta 180  
 ttattttttt gttatggcca ttcttgcagg agtaagggtg tatcgcagtg tggttttgat 240  
 ttgcatttcc ctganaatta gtgatgttga acatttttcc atatgctcgt tggtcatttg 300  
 tgtatctcct tgtgagaatt gtctattcat gtccttagcc cattttttga tgggatcgtt 360  
 tgtttttttc ttgctgattt atttgcatac cttgtagatt ctggatatta gtcctttgtc 420

agatgtatan attgtgaaan atttntccc actctgtggg gttgtctgtt aactctgccg 480  
aattattcct ttttgggtgca aaacctttta anttinaatta antncccatt aancaattac 540  
cctgtccttg ttgcattgct ttggggtcnt gggcccaaaa tcttgcccaa ccaaattnt 599

<210> 9784

<211> 547

<212> DNA

<213> Homo sapiens

<400> 9784

caggattagg cacatattat tccaaatcat aaccataaag atttagaaaa tcaaatacat 60  
caaagaactt taaatctaaa ttactttttt aganactggg gtaagtttgc atagtgaat 120  
tatgagcacc ttttcaattc tgttactaa atttcatctc tctcttcata tagtggtatt 180  
tcaaaaggat tcagttttca tgatacagg gtaagactcc tttcaaactg ttttaaaata 240  
caacgtataa aaaaatgtgg actgaagcct ttagattgaa cttaaagttc tactgaatgt 300  
caaaacaagc ctaagttgaa tataantaat tcattgcctc aaaatatagt cttaaatttta 360  
aaagaatgtt gattctgana cattacatgc agcaggggaa aaaaactgca aatgcccaaa 420  
ataacatgat atctatttgg tgttccacac tcctgggtgg taattcnaaa nggggaaact 480  
tggtgatttc tgctttgtcg gcatactat nggtncgtnt ccnatntta ctttgactta 540  
ttttaaa 547

<210> 9785

<211> 622

<212> DNA

<213> Homo sapiens

<400> 9785

atttttgaaa atatcatgat agtgtttaca aatgcacaca actttgagca aagctttaca 60  
aatccttcat accatacaaa gcaaatgaga aaataatgtc aattcatttc taccceaaac 120

ctagtcttta ggagaaaatt cgcaggaaga gaggtatgag tagtttcaca gaatacattt 180  
tcaagaattt tttaaaaact gaaactccaa tgcccagaac aagataaaca gtatccttag 240  
cagttagcac tgtaataaaa tctcagatac acaaaaatca agttccagag ggcaaagcat 300  
ttaattacag tccacaacga gcactgttgt gattcatata aaacatagtt ctctccaatt 360  
tctacacaaa ccgctctttt aatttattta attagatgaa caatgaaaat cgttttcctt 420  
ttcagcattt atctaagatg ttagaaataa caaagtagtt gcaataaagt gtttgaaata 480  
tttaataaga atgttcgaac cttataccaa attaatgggt gaaaaaaga aaaaanaatt 540  
cctcctccaa ccaaccntt ttcctaaaat naaaatacnt tcccangga aaaaatttct 600  
ngggngaatt acacccccaa cc 622

<210> 9786

<211> 560

<212> DNA

<213> Homo sapiens

<400> 9786

gcctgcagat tcttanagaa cgtgggtaaa ctgtgctaaa agcttcctaa tacattaaga 60  
aagtttgatg aaaggtacta aaaccagaaa cttttatttt aggaagtaaa cttgtatcaa 120  
caagaaaatt cctgtattt ccagggataa taattcctca tctgcttatt tgaccctcac 180  
tttcctttta gactttatat ctttccgatt gaatgtatac atttttaact cagaaaaata 240  
atccacatga cttttaaggt gticcatcatg cccatctttc accattgaaa attaaacaag 300  
taaagggaag tccaagtaca aagctaccgc tatgttttcg gananatttg aaacaatcta 360  
tttacacatg aaatattatt aacatcaaaa aatgttttgg ctcanatgt tgtttaaaat 420  
gattctctca gttccaacca atcttctatt cctagcgggc caattgccct accaaaaagg 480  
gactgcatgn tgtctacaaa ggnntttcct cccctttctt aaaacacact tcnccctgg 540  
aaaacncctg nactanaacc 560

<210> 9787

<211> 339

<212> DNA

<213> Homo sapiens

<400> 9787

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atatatacat tagaattttt tccttttatt cttgttcaca tcttccaaag ctgancttcg   60
tttcnaaagg aaagatacca naagcangaa gaaggtcctt gggaaggga gttggaatctc  120
cctcctctag ccccttgcct acctcttaac aggccttcaaa gtcagaatac agccatcagc  180
tgagancagt tcattttggc aacttgggag gccggctgtg cacaccggac ctctctagt   240
ggggatcagg tcctctgctc tccantgggg cctggaacag ctccngtgag atgccccncc  300
tgtnggctgg gggtnanca canaacctca gctccccca                               339

```

<210> 9788

<211> 614

<212> DNA

<213> Homo sapiens

<400> 9788

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aaaatgtgct cagtgttaac tttattgata ataaccaaaa acaaacctaa tattttatga   60
ttttaaaatt atttttaagc aaaaatana cccatgttgg ggatgaataa catgtctgag  120
tttgtaatt ttgtctgcta ctttcccta tatttccttg tttccttcat cctaaaattt  180
ttaaaaatga aaactttaat cattgttgca tgtttaaaact attgaatatt ttcttttggt  240
aactgaagta aaaggaaaca ttcttgtaga attatggaaa ctaataatgc agtaggactt  300
aaaattgaat gttaggaggt tcttcgtttt aagaatcttc ccgtgggaga agtttccatc  360
gaactgttat atcaatttta tcatcaacat ttcccagcgc ctgctcttta cagagttcta  420
agaacacctg ctccaaggta gcctgagaga ggctgtattc ctccangttg aaggctctgtt  480
tactgcctt taatttgaaa aaggctgana cagaagggtg acatccccca caggtaactt  540
acatgccata aagaagaata tcttcccgcc aaccaccgtg ggaaaacctc caaattccgt  600
ntgnaaactn cccc                                                         614

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<210> 9789

<211> 421

<212> DNA

<213> Homo sapiens

<400> 9789

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atctttaaaa acagatttaa tgtgttaaaa aaaaatagaa tcaagtgggtg tgcttcgcca 60
ctgagatgat tgtgctgtgg ctccggggcc acatagcacc agggctcgat agcagagagg 120
agtttcggcc ctggtccagt gcatgtgact ggtgcagggg cggaggccca gccgcacggg 180
ggccagagca ggaacacagc cacctgttcc aacaggcgct gtgccttgta tgccccgtac 240
atgtgcctgc cctgagagga gcatgggcca ggcctctctt ccagctgtgc ccccagggtg 300
ccagtgaggc agggcgacct ctcaccaaca gagctcctcc aagccatgct ggatttggat 360
tcctggaacc ccctgtaccc atgcggtggg ccacccccag ggggagggga nganatnnnn 420
n 421
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<210> 9790

<211> 573

<212> DNA

<213> Homo sapiens

<400> 9790

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cgggcactga aatcttttat tcgttaattt agtttctggc aagtgtttcc tcaaaatcat 60
caagtnnttc cttgaacgta aaaccacaca ttaaaaatgt tattccactg aaaatgactc 120
ctatgcaaat atcgacatgt gatgtgtgtc caaatgccag agcatittga gaaaagaatc 180
ctctgcaaat aaaattaagg taaaagctga gtcagggatg atccgattcc caccacagga 240
aatgacctgg agctgcacca actcagcgag gttggagctg aaaccctgag ttaataatga 300
tcaaaaggga caaaacagga aggcctgggg accgtggaca gggnaagtgc gcanccctga 360
ttgccantgg gcggaacaag gtcaggctcg gggaaacaag aagggttggt gggcgttggc 420
cctaaacana acagcctggc cnaagctggg ggccactgtt cctgaagcca aaagaaccag 480
```



gttggttggg ggccntttgg aaaggaataa aaaggcctaa aaaaaaccn ctgnaaagtt 540  
ccttttaag cctnttcaan cnaaaaatcc ntt 573

<210> 9791

<211> 434

<212> DNA

<213> Homo sapiens

<400> 9791

caaataatta ttggtcatcg gtcaagcana gtcttctgag gtctctatct taaaacagct 60  
gcagggataa gggacatcac tacctactgt ctttggatta catgtgattc tgaaaactat 120  
tcaatcctga aatgtaatca aatggccaaa tacaacccca atttaccact gatttttacg 180  
taaagttgag tctttgatca caatgctgtt ccttaagaaa tgatcaataa ctgctgagag 240  
atggttgaaa aatgcctttt cccacattt tggtttggtt gttgtttgct gactttactt 300  
ggcaagagtt attgggcctc aaatcagata tttacaactg taanacaact gggaancagg 360  
gaaaagggaa aaggcaaggg gggtnggaaa aaggactacn aaaaaaatn ttttcttttc 420  
aaangttaaa acna 434

<210> 9792

<211> 454

<212> DNA

<213> Homo sapiens

<400> 9792

ccanaaactt gacacaatag tactttattt ttcacttate caactgcctc gtacaaatac 60  
aantgggant tgcaaatgac anaggtttgg ctctgcacag tttttcana aatccaggct 120  
tctggtgatt tactctgtgt aacacatagc ttcccaagtc acatttaatg tcaacatgaa 180  
aggctgcaca tgggagggtt ttatgancca ggtataaaaa ttgcacatnt cacttccact 240  
cacattggaa ntaatggcca aaatttaata atacccnct cnaaaaaggc tggaaaattg 300

cctgggctat gtnttcagga caaaaggaat cnggtttgat gaaaaataac cggtgtcaac 360  
cataancact attatnttct aggcactttg ctgggggatt cantgatgan caaaaaacat 420  
ccttgatgaa caaaaatgac nttcntanta aaca 454

<210> 9793

<211> 318

<212> DNA

<213> Homo sapiens

<400> 9793

acagactatt tgtttattat gaaactaact ggtaaagcag agtaaattccc attctatatt 60  
atagcactac aaacatcctt agtcattcct tcatttggtc attcattcat tcatgcattc 120  
agtgagtatt tcttaagctc ctacagtgtg ccaggaggca ctctgttcat tgtggcatta 180  
caaagataaa gattaaggna cgtactctgc cctcaaggag ctcccaatct aattgtgcan 240  
anagatgtga aaatgaagca tgaaactcca tcgtgaggan cgccganaac aaaagtctgc 300  
tcgaagtgan gcanaant 318

<210> 9794

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9794

gttttgtttg tananacagg gtttctctat gttgccagcag ctgatcttca actcctgggc 60  
tcaagtgata tccccggctc tgccctccaa agtgctanaa tttcaggcgt gagcccccg 120  
gcccagtcag cattggcttt cacatacatt cacttgcttt atttcttta cacctgtgtc 180  
atatattaaa aaactacaca ttaganaatt taaanattt gccaaagttg ctcanaaagt 240  
gatctgatgc taagatgggtg tccttccact tgtactaccc ctatagccta naagtatacc 300  
attaatccat gtcctccttt ataacttgga gtcacacatg gatcatgctg tttcagttat 360

cttgtctaatt ttgattticta acattgttat tgattctacc cctaagtgcc ccaccttaaa 420  
ccacaaaatg ttaaaaatgc tggatcattt ctacaatgtt atctctaanc ctggtgaacc 480  
aaaaaattgc taaactactt tgtgcaacat tacaatggcn tgctgttact ttatttncca 540  
atccaaaatn ttcaaaaatn aaattnannc caact 575

<210> 9795

<211> 518

<212> DNA

<213> Homo sapiens

<400> 9795

ggatttatgt tgtcaataaa cattttatta gttccttgta tggataagaa gcttaaagtc 60  
aatgactaat tcatgccata tacacatatt cctgttttag attttctatt agcaaaccatc 120  
ttgttcaatt gttgttgga gttttgagta cattcagaaa atgaaacccc acaatcactg 180  
tttacaacaa atgagtatgt ntttttcta ataaaatgaa gctgcttgaa aaaaacatac 240  
cttaaaatta agaatgtinct cntcacttaa taagaatgtin ctcatatta aacaataggc 300  
aaatcaaaca aactactaaa gtggcaatgc tcgggatttt gagttccgcc ccaaacttga 360  
aaataaagta aacagccctc aaactttgaa ataaatggat nccccgtga aattaatttg 420  
cctatncaaa aaacgaattn nccaaccen tccaccctcc gaagggnntt ttccccact 480  
ttatccancc tttcgggcaa aatgggtacc ntttaattt 518

<210> 9796

<211> 555

<212> DNA

<213> Homo sapiens

<400> 9796

gtincttaagt aattttatttt aaaattataa gatttacagt gccttgatta tgcaaaatag 60  
cataatggaa attaaaccaa atcaataaac caaagagaaa gaaaacttaa ttttctctag 120

tatccatact taaaccatct ttgtaagtat ctgatgtccc aaccatgtct tatgtagaaa 180  
 gtataatcgt ttcaaatgtt tcacttgcag gtttaatttc tcattttcaa tttttatgaa 240  
 ctgtaatgca atttcaaate ctattatacc tagtgtttat actgcaacag cagcaaate 300  
 cacatgtgta atcaaatgtg gaactggggc acagcttcta gctgtagaca gaaattatac 360  
 actgcattca gtccaggaga gtacattaca ttaaccagag cgtagagttt agtacactta 420  
 ttgcagggtg gtattttctt ccctctgac tgaatcagct gagctgctga gcagacatat 480  
 tactggtgtg gatagtaana ctgctgtggg ggctgangga angggtatna agctgctggg 540  
 gtccnggtnt ganc 555

<210> 9797

<211> 434

<212> DNA

<213> Homo sapiens

<400> 9797

ctcaagctgg tctcaactct tggcttcaag caatcctcct acctcggcct cccaaagtgc 60  
 caggattaca ggtgtgagcc actgtgcca gcctatgcta catctttcta atccattct 120  
 gtatatactg tgattttact ttcctgaagg ggcaaagaat gaanaattaa cagcaatcag 180  
 caagaaactg gtttctctct tactgacaac tctctactc caanacagcc ttccatggtt 240  
 gtaactaatg ctgttagtca atattacagt ttgccccctt ctggggatgt gacaggattg 300  
 caatttctgt cctctctgtg gttaaaaagg ggttctgtta caattcctgg ccatacanta 360  
 tgantaatgt gccaaaaaat gggtaantcc attaaccttg gatccnnaat gtggagaagt 420  
 tatanttatg ttna 434

<210> 9798

<211> 593

<212> DNA

<213> Homo sapiens

<400> 9798

aggtagtggg tgtattataa aatTTTTTTa atgaacatat gtttacaatg aaaaatacaa	60
actaatgatt tttttttcac gtagcttttag antcaaaacta ttcacccaac agcaaggnta	120
cttgtgggaa cagaaaggaa actataatac ttccctttca tctcctcaac cactcatana	180
tggcctggct attgagtcaa attattttatt caggatgtca tcaattctct gtanatgata	240
tgccaaggca aacagcanaa atcactttcta aattctgaca gaantccaga ttttgccctt	300
cacatatgcc agtgctctcc aagtaaaaat gggctctaca ctgggctaga cactcnccag	360
aangggatgc ccacgccana canctgctcc acttgcatc cttcctctgg cttcttacac	420
ccattacant gaaaanggtg cgggacccat acaaccagn caggaagaat gacaggcttt	480
gcaaaccgt ggtcaaaaata aaancnctc cacancgggg caaanatggc cttgacccaa	540
acctgggggg ggctgcagct ntncattaaa angttttggc ccaaactg gcc	593

<210> 9799

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9799

catcactatc atatatatta tgttgtctta ccattcaaac tgttggcact atacctaac	60
cacagtaaac aggattatca ttcccataat atgatctttc ttatgaanaa tttggtaaca	120
gtattctatt gtagttttca tganaaggct ttccctattc accaaattga ctcggttcct	180
tgtcagtatg aataatgacc caaggtttac tggggatggg gacaatgtag gaagggtccc	240
tcgcctcatt cagtgccttc tcagaggccc tctccanaac agccatgtgt gacattctga	300
tgtggtcatt tctatttaca ataataatac tatttttctg ctgcatgcgt ncaacantgt	360
tcaatccaga acccaccccc caggggggtt tntcacact gtttctctca accgtggctg	420
ctctgataaa cactgaaaca ctgatttctg aacaaaacct ttccccaaa atccccccct	480
tgttngggtt tgtcnccatt attnttgtc cnnattttat ccaattggaa cctttgctaa	540
aggcctcccc cntccccac cccctttggg gtcncccc ttttnaat	588

<210> 9800

<211> 416

<212> DNA

<213> Homo sapiens

<400> 9800

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ctttctctgc atattattta tctattgctg cataacaagt tagaccaaaa ctgagcaact   60
taaaacaaca aacatcgatt atctcacaga ntctctgctt ctaggttcac taatgtggct   120
gtgggcagga nacttcattt tttaccacgt aagtctcttt ataggcctgc tcatagcatg   180
gcagctagct tccccagag cgagtgagcc aagatanatt gggggcggtg ggtggcanaa   240
aaanagggtt caagtaaaan ctgcagtgtc tttataaacc taatcttgga agtggcatgc   300
catcatttct gccatattct attggtcaca aanacaactt tggtagattg tgggagggga   360
cacacacaga atgtntacac caaganacan ggatcnnntt ancantgta ttattt       416

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<210> 9801

<211> 402

<212> DNA

<213> Homo sapiens

<400> 9801

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gaagctttta aacaatgagc ttactgtgag caaacagaag caaggactcn aagagataat   60
tagctcatgc atctgggtgct ggctaataat tttcacatga atgaanaaac cactctatgt   120
taactgtatt tttttttaa aaatagtttg aaatggtaat aaaatgcaat tttcanaanc   180
atcttgggtga tcgagtaaaa ctgcttaatt taaaaataa ttcagttact tccacctggc   240
ctgggggtgga taacatgtnt caaaaacttc cntccacta aattctggca aatggattga   300
tctttcncaa tatatatata tatatatata ttttncncca tttcctcctn atggaanccc   360
naaaaccagg aagaaccncc cgttttgaaa aaaaaaatgt tt                       402

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<210> 9802

<211> 502

<212> DNA

<213> Homo sapiens

<400> 9802

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ggtatcagaa cataactatt ttattacaaa acttaacatt atttacaaaa tgaaaaaata   60
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aagcaatatt tccatgcact cacaccagat catttctgaa atatgcaaac tcttaaaatt  180
catgttagta aaactttaat gtattcataa tacttgctat gtttattaga agatgggtcaa  240
aaaaaatcca tggttctgta caataatatt aacagtttgt tcattttcct ttaatatatt  300
ttggcttcca tgaacactcg tagattgaac attctgcaag taagaattat aatagtacct  360
ctgtcccttg ctgaattcnt cnccacaaga aaaacacaaa tagtttaatg cttttgcact  420
aaactgaata attattactc ccaaattntt ttaactgaan ccctccttgn tantcaatgg  480
ntggattctt tnaaacntt aa                                           502
    
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<210> 9803

<211> 608

<212> DNA

<213> Homo sapiens

<400> 9803

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gggagtatta tttattccaa taaacaaaaa tgTTTTtattt ccnttcaat ggtatatatc   60
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agggcncgac aatagttcag acatttgtca gtagctatga agccactttt aacatggaat  180
gaatatccct ttactccaac tcttggtctt attacatttt taaatcaaata cagcgtgctg  240
gaaatagaga aaaattccca aagggaata taaaataatt ttaagcattt tcagaaatac  300
aagttacact taagaaactt gtattaaagg atgttaatct gagataaaca gaaaacaaac  360
gttttgcaaa gcactacttt ttgcatctgt ttgaggatac acagtttgca gctctcctgc  420
cagaagcaaa atactgactc tagcacagca gaaaaggctc nactttaaga aaaaaatgan  480
    
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tggtcgcttt ccatgactga acataacata ttaaacttta agaattttta caatgccaat 540  
taccaccata gtanaaaata ctctttttan aatacaaaan tcnctttnt ttnccttaa 600  
aaatctcc 608

<210> 9804

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9804

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ctcagtcctc caggcccaag cgatcctccc gcctcagcct ccagagcagc cgggactatc 120  
agcatatgcc accacacccg gctaattttc ttgattttct tttcttcctt tttttttttt 180  
tagtananat ganacctcac cctgttgccc aggctgggcc cgaactcctg agctcaagtg 240  
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ctcagagctg tttttttctg ctattggctt ctagttttat ttcactgtgg tcagaaaaga 360  
tacttggtat gacttcagtc ttcttaaact tgtaggact tgttcgtgac tgttatggtt 420  
tgaatgtttg tcccctccta aacttatatg ttggagattt aatcaccaat gcaacagttt 480  
tggggaaggg angcctaata ggaagtgtta ggtcatgaag ggctttaacc ttggtgantg 540  
gaataatgcc gcncttgga aaaancnaat tggnaatggg gtccncc 588

<210> 9805

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9805

gactgaattg aaaatagttt tatagcagaa aactgagaaa caagaaaaca ttaaaattgc 60  
accacagaat ctgaggtttc aaagatctgt ttgaaatata ttcatttcat taatttgaaa 120



tttggggcag gatatgatct taagantcta aacattcaag anacgagggc aagaaagcca 180  
 gtcacatgtn gaataccaag tccaaggcac gcgtcctgcg gtcaggacag tgttctaggt 240  
 gtgaactcac ttaccgtggg gcctatgaan caggagtgtg tggccttcna anttcgaatg 300  
 tgttcatgtg ggtgtgtagc gtgtgaatcg gacatggaaa aaaaaaatc ccctatctgc 360  
 ccagtcaaaa ataaatgtnc acctgaaaat cagatgcaac actaacttgc aaagattccc 420  
 acaacataaa aaaaaaatga tgctttcatg ttgctgggcc gtggacaatg tggaaaaact 480  
 gaagcgtttn cngcgctgtt gtcaaaacaa ctccntnca aacanggggt ngaatttngc 540  
 tt 542

<210> 9806

<211> 577

<212> DNA

<213> Homo sapiens

<400> 9806

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 aagcctcaac cttctgggct caagtgatcc tccagcctca gcctcccaag taggtgctgc 120  
 tataggcacc catcaccaaa cccaactaat gtggtttatt tttgtanaa atggggtttc 180  
 actatgttac ccaggctggg ctcaaattcc tganctcaag caatcctccc accttggcct 240  
 ccctaagtgc taggattaca agcatgancc actgcacctg gctgacattt taaaataaag 300  
 gttaagtgt atggtctgaa tgtttgtgac ccccaaaatt cctgtgttga aatctttacc 360  
 cccaagggtga taacactang anggtggtaa gtgagcctgt aagcctttgg gaagtgatta 420  
 anggggaagg gcaccttgaa anggattaat gcccttataa taaaagcctc anaaaactcc 480  
 ctccacctat ctaccatgtt aaaatcccca tctgtnaanc aagaaaacaa gnctcaccaa 540  
 anaccaaate tnceggcacc ttgatnttgg acttnca 577

<210> 9807

<211> 610

<212> DNA

<213> Homo sapiens

<400> 9807

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gtttgcttta ggcttacact gatctttctt ctctagtttc ctaagatgga aacttagatt   60
atgaatttta aatcttttta atctcttcta atataggcat tcaatattat aatttatctc  120
caaccactac tticactgct tcctataaat ttigatacat tgtattttca tttttattta  180
gttcaaaaca ttttaaaatt tctgttcaga cttcttcttt gacccatctg gtatctanaa  240
gtgttttggt taatctccag ttactttgag atttcccatc tacgtttctg tttttgattt  300
tgtttaattt cctctgagag cacactttat atggtttgta ttctttgaaa ttgtaaggt  360
gtatcttaag gccaaagtat tagtctatct tgggtgctctg ggatgaattt ctgcacagat  420
gcaacctctg tgggtggaac caggatgaaa ntatatgcat ctgtgaaaaa ctggccttcc  480
atctgttttc tgatgcaacc aaaatgcttc agggctcgtc ttatctggaa ggttgaatgg  540
ctacaaaact ttanggggct ccngttaaaa ctcaaactga aaaatcctgg tccccgntcn  600
gnantctttt                                     610

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<210> 9808

<211> 583

<212> DNA

<213> Homo sapiens

<400> 9808

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agtttgtttt cagtanaagc aaggtctcac tatgccgccc aggcaagtct cgaactgctg   60
ggttcaagta atttaccac cttggcctcc caaagtgtct ggattacagg catgagccat  120
cacacctggc caatttttct aaaagtctga aattaagtca aaattttgaa aaagttatag  180
caattatggc aatctcaatt atgggtaaat gtgtgtcaca ttatctcctt tacattttaa  240
gtatttcata attaaaaaaa aaaagcagan aaaattgttt atcagaggaa acctcanaag  300
anatgaggca gtcgtcagca agtanaangc tccctttcag gaaactgaaa ccgggtgcc  360
agtggctgca naacgggtga nanttagcc cccacctctc cactggaacc tantgacccc  420
atgcanataa caacctgccc aactcttcac cctgacctgg catcatattt atctataact  480

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ggcagttctt ctctgacggg ataaattaat aaacnttaaa acncctctaa aattttttac 540  
ctgttggtcn cgccgggtnt gccnntnttc actccccitt tgt 583

<210> 9809

<211> 602

<212> DNA

<213> Homo sapiens

<400> 9809

anataaanag ttttgctctg tcgcccaggc tggagtgcaa tggcatgatac ttggttcact 60  
gcaaccttcg cctcccaggc tcaagtatt ctctgcctc agcctccgag tagctgggat 120  
tacaggcagc tgccaccacg cccagctaatt ttttgtactt ttagtaaagg cagggtttca 180  
ccatgttgcc caggctggc ttgaactctt gacctcaggc gatccaccgc cctcagcccc 240  
ccaaagtatt gggattacag gcatgagcca ctgcaccgcg cctaggcatac tttatttcta 300  
tgtatagaaa gccttcctta atttccccc caaaganaaa ttattgttta gtattttgaa 360  
tgaagancct agtttagcaa tttaaatcaa gaaattatac aaattgttcc atggagatta 420  
aaaagaaaaa ggagctcagc ttncctaag tgacataagc ccaatataaa anatatgttg 480  
gatatttga anccactcc ctttanaatc cctcctctt ttaaaaacat aatgtttaat 540  
tccaacctg aaaccnccat tatgattnaa attaaccttg aaaaatnatt naactttgaa 600  
ac 602

<210> 9810

<211> 605

<212> DNA

<213> Homo sapiens

<400> 9810

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gggaaatggc tgaagttcca aaagactcca gacttcttac aggtttcata tctcttctgt 120-

ggccactaac ttcccaagga ggcagtgcc aaaagccctg tggtttttg atccgttgta 180  
 cttcgatagc tcctcctttc cctagatcca gcagaactct agacatgtna gacatagttc 240  
 acaaaacaac agttatgaac caacaaatac ttggctcacg gttatgagcc actgaagtcn 300  
 gtcagactta aggacaacta gacagagctc ccattttctg tcatctgggc aggaaccaat 360  
 ctctgttgt ataaaatgac cttctggtac tttctggaat cttgcttcct catctgtaa 420  
 gtgaggctaa taccgcttac tcatagtttg gttgtgaaga tgaactaaga acatgacata 480  
 ttaccgtttt aaattgtnc aacnacctgc ttttaacaaa tgccgcaaat ctccggtttc 540  
 ctnacatat aaaaaacaat tctnactgcc agggntgaaa cccccaantt ncctaaacaa 600  
 aaaaa 605

<210> 9811

<211> 609

<212> DNA

<213> Homo sapiens

<400> 9811

gaattctaaa atacctttgg attatataaa attacattgt aaagttacaa atgttgctca 60  
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 ttaaaaaaaaa caatggtgaa tacaaggtat catcatttta agggtaaaga nataaagcaa 180  
 gtacatatac aaatccactg gaaaagctaa gtttgagct gatttcctct cttgaattgt 240  
 aaaatttcag taatacacag tcactatcta ctgctggaat aatgcctgag caatttaggt 300  
 aaagatacaa acaataacaa aaaccctgcc caaatattca aacttgagga attctagtta 360  
 aaataataga aaaatataaa atttatcctt ccaaaaaaag gtatctaaga caaaggtata 420  
 nataccccat gtaaattatc acaagtcata tgtgaatcaa cttttctgt attccttaaa 480  
 gttgttcaat cgactgatga aaaaacaagc tcntattcaa aaaaactttc aaaacacacc 540  
 tacnantaac ttattaatgc cgaaatttnt tttaaaaaac agctattccc tganttcctt 600  
 aaggaaaaat 609

<210> 9812

<211> 468

<212> DNA

<213> Homo sapiens

<400> 9812

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gtttngtan aaatanggtt tcacatgttg aacangctgg tctcgaactc ccggnctcaa   60
gtgatctgcc tgccttgcca tcccaaagtg ctgggattac aggtgtgagc cacgcacccg   120
gntggatttc aatatttggt agccctataa gaaaactgtc tttcacctcc tccaacaggg   180
aaaggagac aganaaatct gaggaatgct gataccagan aaagtcctcc aggggagcan   240
aagcagatgg agggctgctt ggtcacaaca tantctcgac cattctgaca cacggatgac   300
ttgcgtnncc gcagaaactg ttctttgtag cccaaaatgc agccatcttc ataatcttca   360
nggtctgtgg agtgtgcca ccatatggta tagtccttct cttccctaaa ngananacac   420
actgttcang aaagtaccag cacanaaccc ccacgggaag cantgcca                 468

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<210> 9813

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9813

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gaggtttcac acaaacagca tttattatta atttgccttc atganaaaac accgttacat   60
cagatccctg tggacaagct gctaccaggt acatcttctg tcttctgttt ctgcttctgg   120
ggacattana cttcctatgg actctcctaa gcctcctaag gcagttggnt gatggctctc   180
aaaaattgtc tttctgccct ctccactctg cctctcctgt tttgacctct gtcttcctcc   240
ccatgacagc atgagctcag tgaggacagg gacttttgtg atcttggttg caccacagtg   300
cctggaacag gctgcanact cctgtanatg tgagacttct cagggccctc cacacccttg   360
gtgttttttt tttctcccc natgttgaa gttttttgct gaaganagtg tttcacgtcc   420
tgcttatatt tttatttgaa gtgtctctga tatanttatt attatcattt tcnaaatntg   480
gccccgatna ttaatccgga aaacaaaaac ttaaaatttc ctacccttac aattccattc   540

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aatntanttn cctttttgaa cccgtccccc ctgttt

576

<210> 9814

<211> 532

<212> DNA

<213> Homo sapiens

<400> 9814

gtttttgatt ttaagaagga attcttttcc aaagttactt ccaagtaaata tacatttcat 60  
gctgggatac ctgcttatgt gcatcacatt ttgacaaagg gcagtggctc gctaacacta 120  
acatgaattt aaggnccagc atcattgcaa ttgttcaact ttcacccca tctcatcat 180  
aataccgatt tctctttatc tgttcttcca cagagagctc ttgaccact tctccctccc 240  
agagttccac atcctgggat ttctgattct gagtagtgaa ttcttcanca aaggtgttgt 300  
ctacaaaact cgaccaattc aganacttgg gttcttggagg agatngttgt ttgangaanc 360  
tgttatcacc ttcacgggaa tctgcaccat ttcttacaan aatctcattc tctctccaa 420  
ctatgacntc cctaattctc tccccgtctc tctttaaata ccttgtttgg ccagtttttt 480  
tncccatcc catnctcctt naaaccttgg gntttccctt ntccntttt gn 532

<210> 9815

<211> 537

<212> DNA

<213> Homo sapiens

<400> 9815

aaaaaagtac attcccctgt ggagttttat cttgttttaa aaagctgctc ctgcagcaac 60  
atcttgttga aacactgctg ttttagggctc cacagcctaa gtacgggcaa agtgctcttt 120  
ttagtcatca aaatacaagg gtttccctgg acacttggta accaagcagg ttttaaagtg 180  
cactattgtg tccaaacact aggaccgttc agcananctc tgaaaagggc tgggttcagt 240  
tccatcctcc gtgctactgt ctatgtcctg ctccattgct gtctcctcat catccanctg 300

ttgactantg aanttgttta gctcaagaac ccactgggct cccaccaca ttgganctgg 360  
 agtgacaagg aatancatnc tgaggaaata cccggaatna naattctgct ggaatctctc 420  
 caccttcctt tggccaaatt ctnaataccc tgaactggcc tttccangcc cgcgggtgga 480  
 atcaattttc cctgntcttn ggggaaaaac ccccnntgga tggacnccaa aaaggaa 537

<210> 9816

<211> 573

<212> DNA

<213> Homo sapiens

<400> 9816

aaatananat gangttttgc tatgttgccc angctggctt cctggactca agcaatctcc 60  
 cacttcaggc taccaaagtg ctgggattta caggcatgan ccacctctcc cagtctcagt 120  
 tattatttta ataaatgana ctgaacgtcc tcttataagg ctactccct tgttccctact 180  
 acatttgctc tgtttaagta tctctttaaa ttcttcagtt aanatcatcc cttttatcag 240  
 aaacctagac accacaaagt agctttctca cttttaattc tccataggga tcactattat 300  
 actataatat ttgcatacgt atgtgtatat atgtatttgc ttttttaaaa aggtaaaaat 360  
 gctcttctca ctctttgtcg atatangcac ccangttacg ttatttagaa attaaataaa 420  
 nggcacaata anttccccag ggaagaatcn ttaaaaanaa aaaanccttc ctccccctaa 480  
 tatcacataa cttggcctta ttggcntgcc cacctaataaa aaaaaggttt gncctatngt 540  
 taaangaaaa aaccaacctt ncccncttng ggt 573

<210> 9817

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9817

gttgtgtctt tgccagggtt ttgtatcagg angangctgg cctcataaaa tgagttaaag 60

angateccctc ttttttctat tgtttagaat agtttcacaa gggaatggta ccagctcctc 120  
 tttgtacctg tgatanaatt cagctgtgaa tctgcctggc cctgggcttt ttatggttgg 180  
 gaggccatta attactgcct caatttcaga acttgtgaat gatctattca gggattcgac 240  
 ttcttcctgg tttagtcttg ggagggcgta tgtgtccagg aatttatcca tttcttctag 300  
 attttctagc ttatttgtgt agaggtgttt atagtattct ctgacgtan tttgtatttc 360  
 tgtgggatca atggtgatat cctctttatc attttttatt gtgtctatct gattcgtgtc 420  
 tcctttcttg tttatcaatc tggctagtgg tctatctatt ttgttgatct ttnccaaaaa 480  
 ccactcccgg aatccttgaa tttttgaaag ggtttccacc ccccccncc nccattcngc 540  
 ccgaatctan ntaattcctg tctccgcan ctttn 575

<210> 9818

<211> 571

<212> DNA

<213> Homo sapiens

<400> 9818

acaatcttaa aactacaaaa tgctgtcttt ctttctttca gaacaggtgg gattgttcct 60  
 ccagcagctc aacagcttca caganaaaat attcaacgaa tagtacaaga agctctttct 120  
 gccagtggan tctctccaag tgacctctca gcaattgcaa ctaccataaa accaggactt 180  
 gctttaagcc tgggagtggg cttatcattt agcttacagc tggtaggaca gttaaaaaag 240  
 ccattcattc ccattcatca tatggaggct catgcactta ctattagggtt gaccaataaa 300  
 gtagaatttc cttttttagt tcttttgatt tctggaggtc actgtctgtt ggcataggtt 360  
 caaggagttt cagattttct gcttcttgga aagtctttgg acatagcacc angtgacatg 420  
 ctigacaagg taattaagaa ttaaattctc ccaccccttt tgttatgttg tccattccac 480  
 taanttacaa taaaatttct nccccatccc ctaatnttct naatttttct tataactgaa 540  
 aaaatcccct ttggtganaa aaataaaaaa t 571

<210> 9819

<211> 586



<212> DNA

<213> Homo sapiens

<400> 9819

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aaatttctaa ataggtttta ttttggnac catcatttaa tgacattcaa ttaaggattt 60
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ctggggtcct aacagttgca aaacaagtct acaccattcc ttagtatgaa aaagcaacca 180
taaaaaaatg gagcatcaaa atattttatt tcaaatttat tttatgccag atccaagctg 240
taactggaac ctattcccag tctatgggtt tctgaatttc attttcctat ttattgtatt 300
tttatgagaa acttgttgta atgagtctgt accactttat ttgacattta ctaaagctgt 360
ataaaagcca tgcacagttt atttacagta ttgtacatta aatgataatg tttgaagatc 420
acacaaagat ttcacaaaac tataactaat acagaaagat gtgtgaaaac attaaggggc 480
ttccaaantt taaggttgga aatttggcna aaatatttng gcttataatn tttgggcanc 540
cctaaccgga aataattgac aaaacctgcc naaaaatacc ctccn 586

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<210> 9820

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9820

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catgattcca ataagcttta aatcaatagg caaacacttc tcatttatga tccatcttgc 60
tacaggtggt tatgtganaa nacacagtgt cgccaaagct gacctagtat ttaggtccct 120
anagggttg ctgatctgct aagagaaata attaaaaaaa aaaaaaaca aaaaaaagga 180
caaccataca ttttggtagt cttttaaaaa aagctactac aaagatatca ataaccatcc 240
aaaaatcact taaaatttaa tatcccttaa ttccaaana cactttgtga tctgactgtt 300
cttgaaggaa agcctanaac tgaaaactac taaaacttgg ctcctctcta ggaaatgtgg 360
aaacaggttt tctgcaaagg aaaaacttga caagggaatg ctacaaaata ccantcccct 420
ctttaaaaac tctcccacc tctcctgctc catttnatgg aatgggcagg ctgattcaa 480

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aaaggccctt cccaaggaac tgtttaaatc ccncnaaaaa tccctttcca anggattcnc 540  
 tttgaattta aaaaaacttc aanntttnt 569

<210> 9821

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9821

aacaatgaat atgcaggatt tttattaggg naagcgtttc cataaccata aatatttctt 60  
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 aattaattat aaatgaacaa tttcagcata taaaccaaca agtcttttct agatttttaa 180  
 cactgtgacc caattgcatt atttccaag ttagaatgac taataatcaa tgaatgtaaa 240  
 agcaataatt aatacagatg acattctact tttccacagt aaagaaataa acaatctaata 300  
 atttttataa atcccathtt ataccacaaa ataaccttta ctaagcaaat ttttttaaaa 360  
 tctcaggaaa ggaaatgtaa aatccttatt tgagtataaag aaaatgctat aaagcaatga 420  
 gtntcaaaa tacagaagaa gtattctaaa acaaatgaaa aaccnagatg atgaaatagt 480  
 gacactactc naatgttttc ananactgaa atgccagggg aaannaactg aattattcct 540  
 taagccgtgg aaaattttac tttcaaatg canaa 575

<210> 9822

<211> 458

<212> DNA

<213> Homo sapiens

<400> 9822

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 gatgatacca acctgaattc taaaacagct tcctgattct tggacactgc tgtcaaaatg 120  
 acattcagtc tgcaacagcc ccaagaagca agggcaaaagc caggtgctgg ggggcctggg 180

tcctcccnna nccctgaaag tggagtaaag atgtttggcc caaaaaaggc tggggtgcaa 240  
agccagggtca ggggaaagca nantccgctg ggccttgtag ggggtactg gtgccaggct 300  
tctctgggac acccccaccg aacangcaca ggggccacgg ggcacaaacc cactgaaagt 360  
nccgtctcca ccaccanana gctttattta caantnaaca cactggtctc tgtnaactgg 420  
aatcctgaag catcccacct cnaaaactna aaaaaagt 458

<210> 9823

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9823

ggttattcac aagttttgaa cttcattcct ctggggtgat tatttataaa gttaaacaca 60  
tccaaacttg ttgtgttaca ttattaaatt aaatacattt ttccttttga agagcttcag 120  
tagtctgaaa taacaagtga agaaatttgg aatcaaagaa acacaagagc taatcatata 180  
atgatcttgg ttgggaatag aagactctta tcaaaaaagg gggaanaggt acattgtgct 240  
ataaatttaa ccaatgatgt gtaacactga caaccctttt taattagtca ttgacatata 300  
aactagtgat tcaaggtata ttgtcctaaa atacacatcc tgtatattat ctgcatata 360  
atgatgttag atttctgata gaaatctcta aaatactcct tttcacaggg cttatttgct 420  
tcntgtgttc tttcntattt tgangaaan attctaatta ccttttenta attttaattc 480  
natatgaatc cccccgaaga naagg 505

<210> 9824

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9824

ctggttgcgc tgggtctgcc actctcctgt ggcttgctcc tgtccagctg ctgtcccagt 60

gccacaatgg tctagcctca tggccagaag catttttagcc aactcctggg ctgctccact 120  
 ctcttccttc ttccgcccgt ggggcctcac cacctcttcc tcctcaatca cccgggtctgc 180  
 ttgaatcagg tcagcttccct ctgcgatctc tatcagcgaa ctctcctcct ccccttcttc 240  
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 gaaagaacga caccaagacc tagccactcc agcatcatgg aatgcttcca gtgctggaag 360  
 caaatccatt cactatcctg cactgggtcca ttcatgagac tttcccagtg ctggagtggag 420  
 atgtacttct gcaggtactg ttcccgttaag anaccagca tgggtgcactc caaggtcttg 480  
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<210> 9825

<211> 557

<212> DNA

<213> Homo sapiens

<400> 9825

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 atagcagttt gattatactt caatttggtg ttaagaggac aataatacaa agtaaattgtc 180  
 cacaaggac caaaacacca aattttccat gtccaacaac tctctataat taatctacta 240  
 tgtagctagt gtccagcca aatgttcagt tcttaacatt cgccaagaag gaatgggaag 300  
 aaacagatga gtgacttcag ataggagta cactttctct tcctagtctc catcgaacaa 360  
 tctcactttt ttaacagaga atccccca gctacatcca agttaagagc aaaatgctta 420  
 cacaaaacca aaagacaaat tactgtaata ttatagttat catttctatt ccttaacata 480  
 aataatcnaa aagtgactgt ntanantat taaatgcaat cntcctntt tctgcccgtg 540  
 aaaaaatgcg ccttaac 557

<210> 9826

<211> 546

<212> DNA

<213> Homo sapiens

<400> 9826

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gtttggtaga naagagagtc ttgctttggt tcccagactg gtctcaaact cctggcctca 60
agcaattggt ttacctcagc ttcccaaagt gtnaggatta caggcatgag ttaccatacc 120
cagcattttc ttaatccttt tccaattang aagcaaaggt ttaaacctct agtttgtaaa 180
agatggcaga gtttaaggaa aagccatata acagaggtag tatgttactt ccanagcaaa 240
gttatttttc tcctcaccac cccccaacaa ttttactaca ataatttcca gacatacana 300
aaagttgaac aanttgaaca atgaacattc acatgcccac catctagttt ctataactaa 360
tattttgccg tatttgcttt atcagatata tatccaccta ataacgtaat ttttgatat 420
attacanagg gaagttacan acatcactta ngtttttaaa aaaactanaa aggcaattat 480
tttctgttat gttggctaag anaatttaaa ataattaatg antaacnttg tntccaagtt 540
ganatc 546
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<210> 9827

<211> 448

<212> DNA

<213> Homo sapiens

<400> 9827

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cactgcagga tttgtttatt tcacactcac ccttgaggcc cggcccgcgc ccgtgccctc 60
cctctccctg cgccggggcc gcggagctgc agagtccgca gaggggtgga ggcaagagag 120
gggggcagtg tgtccaggac cgagcgggtg gggcgctctgc agagggtgag agcagcgagt 180
ggcttcaggg cgcccaggac tgggtccgat gccatcacag ttcccaactc ggtaaagacc 240
cggggggcaa caatcccaaa agaaggcact agcactcggg gcgcgcctgg acaccccccc 300
ccgttccctc tcagagcgct tacgtccacg gggacggggg agagaagtcg cccaatcacg 360
ccacgagcgt angcctccan ggatgcggct cgcgcgtagg cttgagggta tangtgcgca 420
ngcgcgggca ntgcgcgcgg aangcntc 448
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<210> 9828

<211> 481

<212> DNA

<213> Homo sapiens

<400> 9828

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cactatTTTtg ggtTTTTtatt ttgtTgangt tggTTaaatc ttatctcttt ttttatacac 60
aatacttcat gtncctatga aataaaacag gtagggaata tgtccagtgc aaacaganga 120
ctcacacctg tncatagaca gcaccatcca ctgattgtcg ctgcagtcca cggcgttact 180
aagcctgcgc cacccacgtg ctgccccagn aggcgctacc aggcctcttcg ggccacaggc 240
ctctcctcca ctgcatgttg cggcagggcg ggTTaggTcn canggctcca tnattgtggg 300
gcagcttcaa gggcacatgg ggcaaaagcc ctCnaangtc cctcctcagt anggggatgt 360
cattctgata atactgggat catgttgTan gtcccgtcc tgttgctgaa gaaaacanct 420
ctggatnacc ttcatnataa aatttgcaac ctCnccctca atcatnttgg ggntaaacct 480
t 481
```

<210> 9829

<211> 534

<212> DNA

<213> Homo sapiens

<400> 9829

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gcccggccag aagTTTTtatt tccaaacccc aggaaagcat tacaataag anatagaaac 60
ccaaattaag ctctgaaaca actgggagac aggccTgcct aggtgatcag gancatccan 120
gcagcaggga tgggaagcag aaganatgca ttctggatag ggacctcacc ccagagcctc 180
agtctgtaca tacntgtgac tattcaggga ccgggagttg anaaccagaa accaccaat 240
cctagtgttg ccctgggttg gaggcagana aagcagcagc acgtgaggtc aaggacatta 300
ccaagtctga ccttggcatt tgttgCctgc tctcatcccc aacagtccat aaataagtta 360
tccancacat ctCanggtg gangcggggg gaacaagcca actagccata ncctctggaa 420
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aaaagggcag gccacctggc actggggcag actacacana atgcatctga ctcctgcttc 480  
cgncctctgcn aaactccccg gntnggcgtc caaatttngt cccnccccg cctt 534

<210> 9830

<211> 537

<212> DNA

<213> Homo sapiens

<400> 9830

gcacataaaa acatcattta ttgttagaaa tcatgacatg atacaaagtc aaaatccact 60  
tgtgtcttgc taaagactac agaaagccat gtcagcagc ttcttctcca atgctggcca 120  
gcagcgtacc ttccaagtc acaaagcagt tcatcccgcc ctcaaggagc cgacagggca 180  
gcccnanacc tcccactgac aagtgtggtc acccactcaa gatactggga aagatccctg 240  
ttctagcatc acattttaat cagatttgtc aaaatcaggt tgcttggggc aaaggctctt 300  
tcaccgaggg atgctagtcc tggaanactt ctccttcggc gaanccgcca gctcaatctt 360  
ctgaaccagg ctacatccc agggatgggt ccaaaactga tgacggtgcc tgggcaactc 420  
gctccccaca agggccatct cctgctctg tggatgttat ctgcanctgt tggggggaaa 480  
tcatattgan aaccnctccc cnccattgct gticancccc aaaagntatt tnttttc 537

<210> 9831

<211> 548

<212> DNA

<213> Homo sapiens

<400> 9831

gagacggagt ctgctctgt cgccangct ggantgcagt ggcgcatct tggctcactg 60  
caagctctgc ctcctgggtt catgccattc tcctgcctta gcctcctgag tagctgggac 120  
tacaggcgcc cgccatcacg cccggctaatt tttttttgt atttttagta aanacgggggt 180  
ttcaccgtgt tagccaggat ggtctccatc tcctgacctc gtgatccgcc cgcctaggcc 240

tcccaaagtg ctgggattac aggtgtgagc cactgcgccc ggccaaggga ggtgatgtta 300  
aactganaat cataaaaccc attaagaatt cataatcaca gcagaagcat atctatccat 360  
attctgtcct gagactgaaa tcattatata cacatataag ttaaggtatc aacaantttt 420  
aaaatatact atttttattgg aagggaanaan aataaccaan aaaaantgan gacctnaact 480  
gctcctccag gcntttttcc ttttgaaaaa tttccctatn aagctggcct taattttccc 540  
ctttactt 548

<210> 9832

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9832

cttattcagt ctccgtanag actgtcaaaa attgccagcg ctgattatat ttcaagtcatt 60  
cacggtgggg tattgggaaa atttccaatt ancaataatc gcgtctcgga taaatctcat 120  
tggtctacgt actgccactg caaagctagc ttgacgtagg actttgatgg tcatgtntaa 180  
cacctcacag gggcagaacc tcctccatcc ccgactccaa agactcatgt natcagtagc 240  
caagaaagtt cananatgan acctctgggt gtattccacc tttgggacat ggggggatgtc 300  
tttagttcaa agtcacaaat aaatgcaggt tctacaattc agangcttca tatccctgct 360  
ggagtattac atgtttattc aggatggacc acttttctta gcaacagttt ctaaaccctt 420  
gccangtctg ggaaatctgg gcaggaaaaa ttctaanaaa caatcatcct gcacacactt 480  
cctgaaaaan aatatacatt aatcccnat tatccctcc caaggttttg ttggcccatt 540  
ccatanttcc accatctttt ttggnaaanc cccatttttt n 581

<210> 9833

<211> 462

<212> DNA

<213> Homo sapiens



<400> 9833

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ggatcaggag tcttattctc tctttggaat gactcccaga acagccactt atgcccagaa   60
aatccatgat cccatctcct ccatgatgga ggaagctgag gaccagagag gggaagggag  120
tagactaagg gagtagccag tgcattcccag gagcaggaca gaattctctga cccctgaccc  180
ctagcccagt gctccttcca ccacccctgg ctgctccttc atggaccaat gaggtgacag  240
aggcagggcc tagttcacag gctgacaaga atctgcggat gtcctcagat gtcccacaag  300
gtctcctcct gcagacgccc aaccagacc ttgtctgctg caatatcact accagtgttt  360
gcagacctcc agagacagga gtctcaccac ctgcgaaggc agctactcca tcctgaccct  420
gtggaaggtg tgcaaatgtg ggggtgggtg gggacnnnnn nn                      462

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<210> 9834

<211> 454

<212> DNA

<213> Homo sapiens

<400> 9834

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gttgatatcg agttttattga tgagccattt accttcagat gccatactcc agtttttagct   60
tcgactatct cattctacaa aagttcacca tcttcaaaat ttaaacaatg acttaccatt  120
tgaccagcaa ttccacccaa gagaatcaaa aacatctatc cacacataaa tttgtacaca  180
aatgatcatg gtagcattat ttatcataga caaaaatgaa cagaacctag atgtccatca  240
gctgatgaat ggataaagaa acatggcata tcatacaatg gagtaatttc ggccataaaa  300
agaaatgaag tagtactgat acatgctata tcatgaatga accttgaaaa catgctaata  360
naangaagaa gcaganaggg ccacntattg tatgattcca ttacataaa attcccccat  420
ccntagagac agaaaacaga ttantgttta ncgc                                454

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<210> 9835

<211> 374

<212> DNA

<213> Homo sapiens

<400> 9835

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ggtaaangca ggatctcact ttgtgcttag ggtggtattg aacttctggg ctaaaganat   60
actcctgact tagcctccca aagtgctagg attatagcag ggagctactg ctctgggtca  120
gcttttctgc taaaatgctt tgctgangtg gaaatganga nggtgaaaca ntgggcgggc  180
atttgtttta caaaggctct acctaggctg taccatctgg tgaagtgctt gtaactttta  240
aggtggaaac natgccattt ttcctttatt ctcccgctg taagaccana aagcaattgg  300
angatcctcc aataccangg anaaaccang tttcaaaaaa aattttttng tnggaagggg  360
aatcaaacc aaac                                                         374

```

<210> 9836

<211> 558

<212> DNA

<213> Homo sapiens

<400> 9836

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atggctatth tcttaattht attcatgtaa ttaccaaagc tctgtattct actaaggtag   60
acatcttata ttgtatccat ggacgctcct tgatacatta tggatcatc cagcaagtaa  120
aaactaagca ggacaggcaa gaaagcaaca ctatgacagt aaaaacaata tggatttcac  180
ttttgtttcc tttaaagggg aaagtgttct taataattac tgttggctca cagaactaaa  240
gaaagtatat tagaacctca gtattcttaa caatgatctc tattggttgt tatttgtcta  300
agaagtgata agccatataa tttacagaaa gcaagtcact gaatcctta aaaaacacaa  360
cctggcaatg ttatcttcaa tgcaaaataa tgaagtggca ggancgtgat gaaaaaaaca  420
gtcttcgaaa acatcatgtn agggaaccan ctgtgcttgt atagtctcta acttggtata  480
naaatcaaac aactccctgt gactgaattc cccaanaact tcccnagcn ccttgaatct  540
ccttgntccc ncccaant                                                         558

```

<210> 9837

<211> 418

<212> DNA

<213> Homo sapiens

<400> 9837

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aaggataagc aagcttttat tccgtcaaga gaacaaaggt caggactttt atcctgggtg 60
ggggatgggg agtccagatt ctttctctga tgaggcaaaa aaagaatcaa gactcctgtt 120
caagtaaagg gcagagggtg agagctagta ctcttattct agaaaggaag tagatacttt 180
tctttgataa aggaatgaac ggtagactcc tagtttgcag aaaaggtggg aaagatgtga 240
cttgtacttt ggtaaggaga tagggaagga attaaggcta ttactctgaa gaaagtggg 300
gggccagggc tcctatTTTT ttgctgagga gatggaagat cagggttgt attcaataag 360
aatgggaggg gccagggatg cctggcaaaa gccttgcact gtgaggtgca gnnnnnnn 418

```

<210> 9838

<211> 592

<212> DNA

<213> Homo sapiens

<400> 9838

```

gtttctttnn nnetggagtt ggagtctcac tctgtcacc aggctggant gcagtgatgc 60
aatcttggt cactgcaacc tcagcctccc gggctcaagc aattctccta cctcaccctc 120
ccaagtaact gggactgcag gcacacacca ccatgcccg ctaattcttt gtattttagt 180
aaanacaggg tttcaccocg ttgccaggc tggctcmeta ctctgangt caggcaatcc 240
accgcctcc caaagtgtg ggattacagg cgtgagccac tgcaccagc caaaaaagtt 300
tatctttcat gtttcagata aagccattgc tctaataata ataaaatatg atatgcaaac 360
aaagtacat tggatgaatc gtaccacca aaaaatagca cttaaaatat gttttgcata 420
ngtttttcag tgatctgatt tcaantatga tgaaagttaa tggaatagga aattatgaaa 480
ctatactctc ntatatattt aaatgccatg cnaaatttta aatttcctaa ggaattattt 540
aatgatccca cntgattgcc aatccctaaa attaccgaat ttattcaaaa gt 592

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<210> 9839

<211> 593

<212> DNA

<213> Homo sapiens

<400> 9839

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aatgaaatct tatcttttgc aacaacatgg atggacctgg gaggccatta agtgaagtaa   60
tgatacagaa agtcaaaaac cacatgttct cgtaagtggg agataaacia tgtgtacacc  120
tggacgtgga gagcagantc atagacacta gagccttcna aggtgggagt ggggtgagag  180
atgggaaagt atttactagg tacaatgtat actatttggg tgagggtata ctaagcccag  240
atttcaccac tatgcaatat atccctgtaa taaaagtgac ataaatccat aaaaattaca  300
aaaagttgct caaaaaagat tggtagtcag aancitgaatt ctagatgtgc tttttcaact  360
atctcatttt gtaaattgtag tgtatgaatc ccaaatttta acaatagaca atttttaaaa  420
taccactgc ccaaattaaa anaaaccgcc ttttaaatat cccatttttt ngccacttgg  480
gcnccccacc tgaatttcca anggattatt ggttnccnc cccnttaat gtttggtcct  540
ttcccaagcc gccgaaacca aaaagtttcc ttttgannac actccganat ccc          593
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<210> 9840

<211> 593

<212> DNA

<213> Homo sapiens

<400> 9840

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agtgggtgcag accactagtc actantctgg tgtctggctt aggtaaatat gtcttcttan   60
atattctctc atcagaacta cagataggat aatcaactca tcgagtttgc cagggnnttg  120
ctgggtgtag cactgaaagt ctacatgcc aggaaaacct catcttaggc aaactggagt  180
ggttgatcac acaacaaaag atgattcttt ttgactcaat cctggacctt ctcatctctc  240
tgcggtttta agtaccatct gtatggatgg ctgggtgtatt ttgtttcctg ctttgacatt  300
tcttttaagc tttggattca aaataagttt tgcaccttat ttttaatgcc tatcttatat  360
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tccttactgc ataaatcaga anaatctcaa tattaaataa tctaaatatac aaaacttcat 420  
 ccactctgaa aaaacaattt cncctctgga tgctactatac tcattaaata accagccctt 480  
 ccaaccaatt gctaaactcc aaaccctgga aaaaaggtn gggatttcct ccttatnccc 540  
 tncaaaaatc catttncccn ctacaaangg ccttttanat ccaatatcca aat 593

<210> 9841

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9841

actgtataat agttttatth ttctcatttt actattttta cattttatgc acaaataatt 60  
 atctgcgtaa aaatagaaaa taactgtttt atgtaaaatt acaaaaaaaaa ttaaaaccac 120  
 aaagaaatac ataattgtta ttatgacagt ataagtgtcg ttgtcgttat ttaaagagta 180  
 aaaatgtatg caaaagtcct cctcccattt acaaaagatt gagaattttg tttttcctgg 240  
 cagcaagtga aatattgaag tatcaatatt tttacaccct ttagatctga agacattaag 300  
 ttagtcacag atttgttttg caattatgaa ttttaaaaca tttttgtgct atttcaagga 360  
 tacactantt ctttcttaaa ggcagtagca taaaatgaat atggaaaaca gcagaactcn 420  
 cnaaaatatt tgggtggtaca atccttttgt ttcatactga atatncctt aatcagggga 480  
 gaaaacacta acaatttccc tataccttga cggatncaaa attactgtga tcagccatta 540  
 ctgaagatca ccnctntacc atccgccnt tgttttccga n 581

<210> 9842

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9842

accaagttca taattttatt atactctgaa tagagatgat atttaaggag cagagaaaat 60

gactatacna aagatttata gaacattcat ttacatactg gatataattct ttacagtatc 120  
 agaaaagtaa aaatatgcac taacaaggca ganaanacgt tacaaggtat ttgatgctga 180  
 naataaatgc acagtgactt ttaacatggc tatagcttaa cactggagga atacaacaat 240  
 acgttctttt actgagtant tagtaggacc ctggctataa catgcgttgg gcacagttcg 300  
 tgaactctcc cgcatttact cccanggca gtacgtgcct gtccagcggg agccctggna 360  
 aacaaaatgc ctgggaaaac nttccttttc ctgtggccct aaaaccggtg tccacgggtg 420  
 gggggctctc tcacggtttc tgaaccaca gtacaatctg tngatnacac acaccttgtt 480  
 ctgtttaatg cncatntttc ccaaaaggaa aaaaaaactt ccttccanc tctccaaaat 540  
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<210> 9843

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9843

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 gcccggancg tggctggctg gaaacaactc caacaggttt ttcccttccc cgatcatgtac 120  
 attatttatt ttgtatccta ctactgtcc caagtccana ngcagttaca aaaaacactc 180  
 ttgatgcaaa ccgtgagtgg ctacaacaca cggatggggg tgggcgcgat tcccacaaca 240  
 gggagtggaa tccgggaaaa taatatatag gggcaanacn ccccttact tgctaaaant 300  
 atatggaact caaaaccac aattgctttg ttttgtttct canttcttg antattttta 360  
 actacttget cttaacatta attncgtatt ttcccncaaa tatctgacct gatttaaaac 420  
 atttttgttt gcatacatct tttgtnttg ccccttatat ttttcnnct gatttnggga 480  
 taaaaattta atttctgcct aaaaaaaaaa ccttttactc tttttaaaaa naacctccct 540  
 tccccagcnc ttctntggtt cctttccaaa tnttccacca tntttn 586

<210> 9844

<211> 579

<212> DNA

<213> Homo sapiens

<400> 9844

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agaaaactta tttttattct attatattga acacattgta tcacccccac tcatagctgc   60
actccaaaac agttcttctg ggaagcaggg ttttagtttt actgaacatg aataaaaaat  120
ccaggcagaa ttcaaaacca gggggaaaga gtcaaggaag caaacttgct tttcagaagc  180
aagatattta taaacagtaa tagctgagaa tcatataatt tgtttctgaa aattaccttt  240
taaatagggc ttcattttac atttgcatag tatatggaat tttgtaagaa gcattaaatt  300
tcaaataact tgatgcaata aataatcatg gaatactcat tgtccaaata taacagatag  360
agcatgtcca ctaagantaa tgttatttct cttaaaataa aggggaaaat ctaagttcct  420
tgaagcanaa actgtgttgt tgactatggc agtcccgtgc ctacatgat acctgaaatg  480
antcncacca acantgactt ttgaaaaaga ataaagaagg attgaagacc aattttttaa  540
ccntncntgg taggaatttn ggcggtacaa taaaacaac                               579

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<210> 9845

<211> 583

<212> DNA

<213> Homo sapiens

<400> 9845

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ggaggtaaaa gtgagtttat cttatgctca gcaaaacata tttaggtcag tttaaatatg   60
agcaactggt aaatttatcc tcagctagca tanangtggg cattgttaat acnattcaaa  120
gcttggttgg gcactcttcg ttttatagta tgcctgggat acagcacatc tgtgagacaa  180
gaaaggctaa actagagctc tgcttcttct aatcctgcat tacaaattta ataataaagt  240
acatttctgc tatgtttgtg gttttaaaat tattcactgt aaacatccta tattctttcc  300
taattaattt cagagctgga acttatatct atgtctatgt caaattatca tttattctat  360
gaaaagcagc acgaatactc ttcatctggt ttttgacaca aattccttaa aaaaaaatta  420
aggccattta attgaatcag ggccactgaa nattaacctg gcaaaagtca actactgatt  480

```

taanaatttt gaaaaaaaac caaagttggt gtentgtttt tctccctggt acttgaaaac 540  
attgttaaatt tattatctcc actctcctct cnattncata anc 583

<210> 9846

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9846

acaaccgtat gaaagaaatt tataatccac aaaacttttt caggtcttaa ggtaaaatan 60  
ttccacagtc tacaggtaaa accaaggnaa caaaaatgcg tgcttatctt gattaagtaa 120  
gtaattttat gcagaagatg tnacactttg tttgtanaca gcatggatg catttctcag 180  
caagacataa ggaaaacaag attccnaaag atccattgta aggaatggag attcttgtac 240  
aatcatatct agcagtaaat aaacagattc tctatttctt gttgtagttt tatctgtctc 300  
ctggccaatt ttcagtagac tggaggatgc aagcgccaga aattctttaa gacggctctc 360  
aatgcttcct ttgtgaattg taaacaaagc tgcancaatc tggttgatgg ctttggccaa 420  
ncaatgtntg ttgttgcaat gcccttctat ancagggctg ttctganact cccattactg 480  
gccantgttn gcaaaaaaact gcccccaacc cntgaaaaa ggcggcantt tatcccctcc 540  
tcnggaaaat tttcccaatt ttgttaaaaa aaaccccaac cttccg 586

<210> 9847

<211> 490

<212> DNA

<213> Homo sapiens

<400> 9847

ctctaattctt gacgtcacac tttatgtcat taagttgatc ttcaatctct gatatacttt 60  
cttctgcttg atcgattcag ctattgatac ttctgtatgc ttcacgaaag tctcgtgctg 120  
tgtttttcag ctccatcaga tcatttatgt tcttctctaa agtggttatt ctagtttagca 180



attcctccag ccttttttca ttttagctt ccttgcatg ggtagaaca tgctccttta 240  
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 cattctccat ccagttttgt tctcttgctg gcaangaatt gtnatccttt gcaagaaaaa 360  
 aaggnttcct ggttttggaa atttcnacc ttttggcann ggttttcccc cccctccatg 420  
 gaattaatct accttnggtc tttaatgccg ggtgaacctc ccgaatgggg tttngttttg 480  
 naaattccnn 490

<210> 9848

<211> 310

<212> DNA

<213> Homo sapiens

<400> 9848

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 gctgtattct cagagcaaan atgtatttct gtaccactgt cctgtataaa tttgttacct 120  
 aagatagtga ctggtatgaa aggagaggga agagggtgac agatggaaac gattgctgta 180  
 ggacagtcca tctggccaga tgcggtgggg gaggggagaa aaantgggag ananatggtc 240  
 ctacanatgc tccntgggt aaatgatggg tgcacccctc cctgcantcn ggctgtgcct 300  
 gtacttcaca 310

<210> 9849

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9849

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 aacactgtgc tgcattataa acagganang gaagaatcca gtgaanaacc cttaaagtga 180

atgtcgtcag ctaacatagg catctcatcc aaagaagact tcaacagagc agttgtttga 240  
 gttttcaatc atcagtattc tgagaacttc aagtgtgtat tattagtgtc aatgctatcc 300  
 atgttccttc tctatittct atgatacgag gaaatcacat gaagctgcct taagtgggtga 360  
 aaataaatgg attctatttt tgcagtattc ctgcagtctt ttaaatacaca cacgaatact 420  
 gctcccaaaa ttatcatcan cttctgcctc anaccttcat gaaataactg aaacaatgtg 480  
 ggggtgtctnt taaaaaacga atggctaacn tccccccntt caatntttcn cccccctttt 540  
 cna 543

<210> 9850

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9850

cccaagggaa gttaataacct ttactaagtt acaaaaacttg ggcaaatcaa tacagtactc 60  
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 aaaaatattt aantnccaaa tcaaaacact gggtttttaat ggtgggtttat ancataataa 180  
 ggtattttgc acaaaatata ttttaaaact acacaatttc tccttittaag tgancctccct 240  
 tgtgcaagct gctgaantgt acagcaacag ggcaatgggc gtctatagga ggtggctctg 300  
 ctctgttctg gggtttgtcc aaagtcaggt gganttccaa tgtatgaaaa gcttgaaaaa 360  
 tctaccttaa gganactgaa tatcaatacc agtttccaag ganttcttgt tgaaattttc 420  
 acanaaatac tggaaaccct caaaatcaaa tantaatttc aaacaacatt aattccaaat 480  
 aatcctttta tttaaaagnc ccnccnctnt tttaatnaat tccanaccct 530

<210> 9851

<211> 493

<212> DNA

<213> Homo sapiens

<400> 9851

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ctcaaatagc ttaaataagt aggaaatcta ttggctaata caactggaaa tgcggagata	120
gggcaggctg cagggtggt ggctcagggc tcagggggcc ccaactctct gtgctgctct	180
gaggcactgc cttcaatctc aggttggcag cacaaagctg ctganagtcc cagtgtcacg	240
cccanacccc acaatgccag ggaaggaaga caggttctat ctaanganaa atcttccatc	300
cccacctctg cggactttta ctcacttctc aggacctgc ttgggatctc aggcccatnc	360
ctnaaccatt tnttggcaaa caaantgaaa tattttttac accaggcagg cacccttga	420
ttgnaagcac ccacctccaa ttctttcagg aaaaaaggga aantgggaac tncncaaaca	480
ncaaccacn tnc	493

<210> 9852

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9852

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ttaaattttt taaacagcca tgtcttggca ttagttaata ttgtgcatat tggcctctat	120
ggcactacaa gtaaacagat gaaaatattg cccattttca tgcacaggta ttcagctata	180
acaccattta caaatcatta tgaacaagat aaattctgca ataatttca tttggatggc	240
cacaattaaa tgagtgttat atcaagaaat agcctatgtt caatatactc cagatgtcag	300
attgtaaaat gtaatgttat ttaaaactta attctttatt ttccttaaag ggacaccttt	360
tgtgtatttg ggtactcaaa tgaaaactta ggaatgcatt ctttgaccat aataacaaaa	420
ttcacacaaa agaagttgta tgcttcctcc tctaaaagaa ncaatacatt tgctcataat	480
ctctctctcc aggtacattt ctcataattat taatgaaaat gcctacnaac accaacacca	540
aaattctgtc ttccagggaag aggttncaat ttaaaaanat tggtcntnt ttnaaaa	597

<210> 9853

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9853

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ccaattctta ttttattaaa aaaaatggaa ataaagttaa aaaaatcaat caacatggcc 60
ttaaatttta acaattttta cagcaagtgg tggggggagt tctcaaatga ncaactggag 120
ctggaagcac ttctgtggtc aagcaggcag cccatggggt tgcattctcc tgttggggga 180
tcatccattt tcttcaatga atagttttaa gtcttgtcaa atgctcacac agaggcccg 240
tattaaggag gcanacaggc aacattcaat acgaaggcag gacaagctca gccccgctcc 300
ttcattcggg catgtgtcat tagggatgac attctctgaa ggctgcccgg cttgaatggc 360
caaatccctg catcatggct ttctttaatt ccctctgctc ccaactcaca aaatgangac 420
ctctctttta aaacaaaaag cactgttctc aaaggtatac atttgaact tccaataatg 480
aaaacatctc ttgcttggca ggtggaatat agcaattttg gatttttaat catgcatggg 540
gcggaattaa atttcttcca gggtnnttn cctaaaatng ga 582

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<210> 9854

<211> 547

<212> DNA

<213> Homo sapiens

<400> 9854

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ctttctcttt ccttttttct ttgtcatttt cttaacagc tttgttgctg ttagagccac 60
tatttccatt gcttgaattc cctttagggtg tggtactaga agctttatta acagctttca 120
caccacactg agatctctcc cttagattat cagtctctc agtactgctt tcatccgatt 180
tagatgcact tcctattgat gatgaanaag gccaccacc aggccattt tgcacactgg 240
caactgcatt cctcggaggg gggcttttgt gatgaaactc attttcaggt atcatgtatg 300
actttctact tttcaactgc ccagagtagc ccatagccaa tgcatataga tctggcctct 360
tctctttttc ttcttggcag attttgtgta ctcttcttcc caaagcttga cccagattca 420

```

aaacttttgg gtaccaagga agtatttttg ttancacaat caagatatcc tgatgtnagt 480  
atattcccct gtttccangn aatgttnega agccttggtt agtttgttat gccattatnt 540  
tcnacat 547

<210> 9855

<211> 580

<212> DNA

<213> Homo sapiens

<400> 9855

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aaaatgccac taatanatac atgtcattac acatttggtt aaatccacag aatgtncaac 120  
actgagagtg taaactgtgg actttgggtg ataatgagac attgatgtag gttcatcgat 180  
tgtaacaaat acaccactgt ggcgtaagat gtcaatagtg ggggcactct gtactttctg 240  
ctcaattttg ttctgaacct aagactgctc taaaatacaa agtctattaa ataaataaat 300  
aaaatggaaa aacagtaata acaaagccc cttgaaacca ttttccaaa aataatttgt 360  
gtcatcttgc ctgaagaaaa agaatatgta aaaaataatt tctaaaattc tgtttcttta 420  
taccaaaatc acgggacctt gaatatctta acaagtccta attattgctg aagaacagga 480  
atcactactc cgaaanatgt nacaagaac ccttcctac catattaacc cggccccccc 540  
ccaaaaana ttttcttnt ttcngggaan cnggaaaccc 580

<210> 9856

<211> 473

<212> DNA

<213> Homo sapiens

<400> 9856

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tagccttcac aaaccagtc atttgactc ctaggttcag gcaatcctcc tgcctcagcc 120

tccaaaatan ctgggactat aggcatgctt caccatgcct ggctaatttt ttttttttta 180  
aatagggaca tgatcatgct atgttgacca ggcaggcttg gaactcctag gctcaagcaa 240  
tcttcccact ttagcctccc aaaatgctgg gatcacaggc ttgaatcact gtgcccagcg 300  
ganaccttct gttttctcag ttaancangg aaagtgtntn aaaggtgaaa tgcangtttt 360  
caactgtcat ctgaaaaaat caaaancaa tctgctaaaa aaacatacaa aaatgggtag 420  
gccttattaa atggctattt aaattttttg tnanaaat tcaattntnt can 473

<210> 9857

<211> 470

<212> DNA

<213> Homo sapiens

<400> 9857

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gccacttctg cttctacact gcactgacac tgcagcaatg tacctccttc tacacccgct 120  
cagcaaaagc gtgtgttttg ggggtggggag ggagtaaggg aggaggaaat gttgtttggc 180  
ctttctctan ctattttacg ttaaacagga ctcggtacag actttaaaaa gttatttcaa 240  
aaaggtctga ctttagtaat gcactgtatt taaaggaatg catccaaatg actaagtcct 300  
aactcactta actctttcca accctccgaa nataaacaaa agttgaactt aattacaana 360  
aaacggatgc taatattctg cttggaatta aatcccttct caatanaaaa gtgttgccna 420  
ccattatttc tccccgcanc tgtcncntta aagcaaaacn tttaaaanac 470

<210> 9858

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9858

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ggnacattaa atacatcctc ttattgctct ataaatgcat gcagctcatt ctgtgtatca 120  
 aaagtaataa ataatggcca taaaacacca agacagttat aaaaatgaca acccagcctc 180  
 aaacatagta tttacagtc cagtctagaa caataaccca acatgataca taaaagtgcc 240  
 acatatgaaa acatgcggtg tgtatatcca ctctagcact gagcttacac ttgctattta 300  
 aaaacatagt agggttttt cactccttca aaaagggtga catgatgcaa acatcgcaag 360  
 ttatagcatc attgacttta atattacatt catatgccaa aaatctttac agatacataa 420  
 gaanaaaat aacatcaatg atgaccctac agtatattta gtaaaagtga naatgaattt 480  
 tttgttggtt caaanaaga anctactttt ttgaaacaga caagccaanc cgaaactgaa 540  
 nccganaaaa acatgctttt ataccaaaan cnaaa 575

<210> 9859

<211> 595

<212> DNA

<213> Homo sapiens

<400> 9859

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 cacattctct tgatggaaaa aagttttgtc aacgatattt tcaatctgct ttgctttttt 180  
 atttctgcct agctgcattt ttatttcac actgttcatt ttgttctcta ggantcgtg 240  
 gtgttgatgc tgaaaagtta caggatctct tccagganga ggatggcagt acagcagctt 300  
 accactgaca tantccttca ggatgtancg cgcanatcga ngctggctctg gctgtccatg 360  
 cgctgtcatg aatcctcgca tgtatccata agctgtcaac agttcttccg atnttggaag 420  
 tcggtgggga tcttcatcct ctctangcgt tatgatgtta atgccataag tacttctaaa 480  
 acatgtcttg gaatattctg gcaactaatg atacaggaag aacataatct ctcctctgaa 540  
 tcaattggga agaatcccc tgccaattcn ttcttnccn ggtaaaaaan aaaaa 595

<210> 9860

<211> 583

<212> DNA

<213> Homo sapiens

<400> 9860

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attttttttt tttttttttt tttttttgca nacgaagttt caaccttttt attcaaagca   60
gcttctcaca atgtataaat actgcatatt agcacacatg aaaaatacaa cttctaaggn  120
accananaat gtgttcatac acgttacagg accattcaca aananagtgt acaatttgct  180
ctaaacagtc aggatttgat aaatcanaaa attattatcc ctcagtactg caccagctct  240
cagtaaataat ttacaacatg gtganaaggg gtcagctgta ctttctttat aattctatga  300
agtactcana cttacaaata ttcagaacta gttaaanact ctcccntgat aatctggcaa  360
aataaaacaa gtancctaata tttgcaaagg tctcggtgga ttttggtgtn tgctacatcc  420
atgatcaaat ccaaacactc ctanggtggg ctggataant ttttggtagc ctgcttcatt  480
atcggaattt ggtaataanc cttaccaaca aaatacanct cttcacatca tcattctcac  540
tggtcatgga tcatgatccc cctgaatgaa aatggaaaaa aat                               583

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<210> 9861

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9861

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acataatatg ttattttatt gatattctgg agaagtccaa acacacaaag tgattctgta   60
tttgcgagaa atttaaggag atgatgaaaa tgggtaaaaa atagatttaa aagggtgatg  120
aaagtattat gtataatatt ataatggtaa atatgtgata tgaatttggt gaaatcaaca  180
gaatatacag cataaagggt taattccaat tcacaaaaat ataaataaat aggagattag  240
gaattccagg atagaatgca gacaatatag aaaatatcta atgtcattac aaatgtatga  300
aatcagaana ngtgccaaagt gacctcagaa atagtgtagt caataaaaga ataaagaaag  360
tgcacgtcag aactgtaccc cagctgatga tgttcctcca aagagcaaaa catacacaat  420
ctggttccac tctacagaaa tcctggaact ggactacaaa gggaataaac agggttgtgg  480

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cnggaagggg gtcncnccg ttggattgca aggttaggga caggaataaa aggccggtat 540  
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<210> 9862

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9862

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caagcaacta ctgtgtcatg tacttttcac acattctttt aattaaaaac tctccactaa 120  
cccttacagt tcagtattat ccttgtttta cagatgaaga aaagccaaag agaagttata 180  
taactggcaa gtttctctgg ctccccgcct gcaccactgc tcgccagatt gcatgaagag 240  
ggaggcagct gtaacacctc atcccgttga tctccangga actcanatac ttgtttccac 300  
gtccaggaaa cgcgaaacta agctctttga ancatcagca aancttgcta antgacacgt 360  
gaaatgccat tggatacata ttctaattct tcaggtataa aggacagtca nactgcctca 420  
tctgttcac caagggatct ganaacanac attcctccag tnttgaacat ccacatcctt 480  
atnggaaaat ggtccaaaaa aanaatggcc ccnnttttaa aanattttt ttagggccga 540  
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<210> 9863

<211> 524

<212> DNA

<213> Homo sapiens

<400> 9863

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caagtagcag tttgaattat aatgacaatt ctttaggatt ttatgtagct tgcatattta 120  
acatttaa atattgttct aggaattggn tgataaaact agaaaataaa gagaaattat 180

gatcaccatg tgttcactct tcagactttg atctatgaat cagctcactg agagagatac 240  
 ttgaaaactt ctcttggttt cttctaatacc atctttggaa tgtcctccac ggatggatgc 300  
 cttgcagttg aaacataaat gctataaaaa ttaatcccc tagcactacc gctgttgcca 360  
 cggcaataaa cgtgtgtcct ggggaatggc aatgggtgcct catcaacata aatctgaaat 420  
 tctcaattaa gttacaaaaa nttctcctga aatgacggnc cctctaaant ggaaaagttc 480  
 aaanccttta tgcttaantt ganacctgaa ggattatacc tgcn 524

<210> 9864

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9864

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 catctcctgc ccagatccca ggggtggcctt cctgaaatga acgtccatc tgaattttct 180  
 tctccctgt ctctcaagan aatgcccagg ctcttaacca tgtctcanac tgccctgcac 240  
 ctacgcctct gtctctgcac ccccaggcat gttcaacctc ttgcaattct tgcattcccc 300  
 atagttcatg acccaacctt tgcccccta ccagctggtc ctggaatacc ccccaggctc 360  
 gtttgtgaac ctgangagta ttcatgttcc aaagtcgcan cactctggaa ccgcctcccc 420  
 aagctgctgt gggctcttgc tgggtccccc naatgttcaa gtctgtctcc ccgangggcc 480  
 caatnccact ccanaatntg ttttctcccc ccannacta 519

<210> 9865

<211> 433

<212> DNA

<213> Homo sapiens

<400> 9865

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acagagaggt gaagtgactt gtccaaggtc atacaaccag cagtgtagag ggctcaaagc 180
cagcattcct ccacttgaac tcctgcgctc cggccctctg gcagttccca catcctctct 240
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cctggcagct gagatttttc aggaatggca actggggtag gcctgggtcaa ctccagatag 360
gagctgancc tgaagagcat ggggccagct ttgcttctcc ccattcccat tgggatgaag 420
ggcctatnnn nnn 433

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<210> 9866

<211> 532

<212> DNA

<213> Homo sapiens.

<400> 9866

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gaccanactg tactgtggcc atgtncacaa aggcatgcac cacatcccag ctctgtctgcc 120
ctgggctgtc ccacaggcag ctctctanaa cttgagagcc tcaaaagggg cctcatgaag 180
cccaaattct cctggtcag ctgatggcat tcgtataact gaaagttggg gaagaccacc 240
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tggangtcta ctccccctc nctgaatttt gttcctgaaa tcanaaaccc cggccccacc 420
aatccacag gccaatccac ntccagccn cccttgnctc ccccantgaa cccctttcn 480
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<210> 9867

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9867

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acaaaagctc ccacatgtaa acaagaacgt aaataagtta gatggcatta ttatgtacat 120
tcaagaatca aaacatgttc tggtaaacad tccataatcc ggtaaaatgt tttcacccat 180
cactgttaag agaaactgtg tattaatac tatcaataac aaaacctaata ctttgaacat 240
tataaaatgg tttacggaat ataaactata cagtttagtt tttcattcct cctagcaatc 300
cgtgtcacat gtatactagt cctaagangt attttgtcag tattagccca aaangtcccc 360
caccctaaat naaccagttt acacatatct cccccagttt taagggtggg gatgtgttga 420
aacccatata ttacaacatc ctttttccaa actaacctaa tcctaattcc tatectacta 480
atccggggng cccccattta tctccgtct acccttcctt naaatccnng gngggttccc 540
cttaaaaaat ccgccgatcc cntttaana taattt 576
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<210> 9868

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9868

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gacggagtct gtctctgtcg cccaggatgg agtacagtgg cacaatctca gctcactgca 60
atctctgcct cccaggttca agcaattctc ctgccttagc ctccaagta gctgggatta 120
caggtgcctg ccaccacgcc tggctaattt ttgtattttt ggtagagacg gggtttcacc 180
atgttgccca ggctgggtctt gaactcctga cctcaagtga tccaccccca cccccattgg 240
cttcccagan ttctgggatt acaggcgtga atcacgcgc ccagcccaaa tcgccgaaat 300
ctttatctcc taccttgatc tctgtagcag aaaagaacag tatanatata aattgtcatc 360
aacagatgca acatatcttg tnaatcaata tattttcaag tgaggtctct gaatcacctg 420
cactgaaatc atctgtgatg cttatcaagc atgcagatct caggancntc nctganttcn 480
taaattctnt ctctggangt taaaa 505
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<210> 9869

<211> 596

<212> DNA

<213> Homo sapiens

<400> 9869

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tacggggcaa gctataaaat ctggaaaatt taaatcaaat taaattctgc ttttaaaaag  120
gtgccttaag ttaaccaagc attttgataa cacattcaaa ttaatatat aaaaatagat  180
gtatcctgga agatataatg aagaacatac catgtgtata aattcagaat acgcttttta  240
caciaagaac tacaaaaagt tacaaagaca gccttcagga accacactta ggaaaagtga  300
gccgagcagc cttcacgcaa agcctccttc aaagaagtct cacaaagact ccagaaccag  360
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ggttctgctt gctgaccacc ancttctgat gctgatgaga tatgttncct ttgacgtgtc  480
catgtttatc cagttagecn gaatactga acttcttcca tttcncgtcc cccccgctn  540
aaattccagg ggnncccaaa aactcccaaa aacctngggt ttttccctt acaatt   596

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<210> 9870

<211> 579

<212> DNA

<213> Homo sapiens

<400> 9870

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aaciaataaa attctttatt taaatttctc ttgtggggaa aatatttttc tttaaagcac   60
acttaaaagt aatttgcatc tacttcctgt aaagcatttc catttcacaa ttagcaaaac  120
taaaaggcta tgtctcttca tgcatttatt tttgttagaa aaatgtccca tgggtctatc  180
aaaccgattt taaccatcat caagcttaac ttgcctctg ttgacaacat gactacaaac  240
atgaatcaaa aaggagttaa ggaattttta gccataaggt ttcaattata gcttaccaat  300
tatgtaatta gctgacaaaa atcaagtctg atgtagaata gctgtcatct acttaactgc  360

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agataatcat ggcattttca ttttaagatga tctgaactta tgaaataaag gatccagtcc 420  
 caagaactca ataatctctt atgttttctt ttgnaagact tatttcaaataa actaactatt 480  
 tcggtgcctg aatggaaaaa tataaacatt aactcnaaaa naatgttgta ccggtttgga 540  
 atccactngn actttaaccn cngtgnaaaa accgaaagg 579

<210> 9871

<211> 594

<212> DNA

<213> Homo sapiens

<400> 9871

ctgtgttaca acaaagcagt ttatttgtga tcagtgtttg agactctata catccttcac 60  
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 tttatttccc tanaacagaa gggctggtat aagttatttt ccagaaatga ggtaccgttt 180  
 tcacagaact ggtttctttt ttttttttca agttttanan aactaaattt gcatttgtta 240  
 aaatcaaaaa gtaggaaaga tgttctttac aaataatttt gatcaagtat gtgttcaaag 300  
 aaagcaggat aaaaaggctt tttctctaac attctgtgtt gtactgtatt gttgttcaat 360  
 aggaattanc ttctgtcatt tgctaaaaaa atgantattg gggaacagga tatgttggaa 420  
 atttcataac gggtaacaga accattctct tgggtaaacc ataagcangg gcanctgtgc 480  
 tgtaaccata tgggttttcc ataccctgna actatttncc agaacaactg tccccacaa 540  
 aannccccct gttnaaatc ccccccccg ccccaaaact ngnatggtgc aan 594

<210> 9872

<211> 479

<212> DNA

<213> Homo sapiens

<400> 9872

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gtagtatgac ttagggcaag agccaactcc tttatgcttc atttttttaa atctaataga 120  
 tcaaggaaat ggaaaccggc tcaatagggtt gtttaaagct taananatgt gtgaatgcac 180  
 ctagcaccta ctanacacaa caatgagcct gcatttcgc aagtaagcca ttcctacctc 240  
 cttaccccc attccaatta atgtttgtct ataanaatat tttaaaattc aagagccaat 300  
 gtaaaactct gtaaataatta tcttgctatt tatagagacn accacaaaag tttgcaatga 360  
 tgcanatgac atccataatg agtctcttaa atgaagggtt ggcangcaat acagggtctt 420  
 tgaataaaaa tntccccagg aaaaatactt gcaantcnag cccccaaacc atcanntnt 479

<210> 9873

<211> 551

<212> DNA

<213> Homo sapiens

<400> 9873

ccacaaggga atatcatttt attactgtaa tcacaaaatc gtaatttctg tacaggaatg 60  
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 canaacatat tgtaanaaaa aaatattgta aaatttncgt gtcttgtagt gcactattta 180  
 gtgcaagtat ttaaaacaca atagtgttca attcancaaa gtattgcaaa atgtcatgcc 240  
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 gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt anaaaaaacc acatgtaatt cataaaatat 360  
 atagtgggtt atttaaattg ttttaaattg atttcctgt ggaatccacc ataactggaa 420  
 cacatcccag ggtctcctta acggcaacaa accttatgt aaggcaatgg ctttgggctc 480  
 cgggttagaa atcnccecca ttttttnac ccccttgnt tntnttgaa acaatgaanc 540  
 caatttctna a 551

<210> 9874

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9874

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gggaaaaatg taatttattt gcactgcttc cattcttcta ctgtagtggt aggacttaac   60
ataagcatca ctcttctatt tcctatttac attcttttgg aatattactg caaatacaat  120
atacaattta aaaaaactta tggggaaaca cagcttatgt tttttctcc tctttacagg  180
cttctcagta tcattcgact tcaatggaaa tttatatgga cattttctgt acatatctta  240
aaaggcagan attacactga taaagcctaa agaatcctgc acaaatacaa tacagaaaac  300
agaaagtaca gaacnatggt atttggggta caaatataaa caatacagta ccatttgagt  360
nactgagcaa cataataccc atactttata gaaataaaaac tgcaaacctg gagaatgctc  420
tgacaaatat taaacattat atacnctatg aggtaaatgt tccttggtct cttganaagt  480
tatttaagtt ttaanccatt gacttttgaa acntctccct tacntttnaa             530

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<210> 9875

<211> 475

<212> DNA

<213> Homo sapiens

<400> 9875

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antttaaaaa caacaagcat cctttattct ccttccaatc tcagtgtcca aaagctacgg   60
ttaacangtt ttcnaagtgc aaatcatttc attcctcnaa agccanangg gaataaaaac  120
tgtacatcat ctccaatcca tattcatcag gancgccctg gggcttgtca tcctgctggc  180
acggggccag gtttcanggc ctggcgga aaagtctgta ngctttggga cttggtgtct  240
ggcccentga natnanatta gttctccnat aacctgaatg cctcttgggg aggcggcagc  300
acgcaggcgt ataatccctc tagacancca gatcgggcgt ggggtggantt taaacccac  360
gatgttctaa cagccacaat naaaactggg ggttngaagt tanaacctct naacnagaat  420
tgggatttnc ccaagggaat aagggggttt aaataatcca aaaggccna ccatt         475

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<210> 9876

<211> 471



<212> DNA

<213> Homo sapiens

<400> 9876

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acatttttaa gacattttta ttgagctaat tttacaaca ttgcttttagc tggtagacagc 60
tgccccaac caaaacaaag ccatcatgaa tgctattcaa catcctcaat gtaatccagt 120
atgtttttgt acttgggaata tagttaaact tttagacatta cataatcaag caaatagcag 180
tgcatactat attattcaaa aagactttat ctatttcatt taaaaaatca agttgcaagt 240
ggcctcagct ttatcaacaa tcgtagtgac acattccaca cttcatgctc tcaaaataaa 300
aagtgcccta aaactaactc taagtttttt agtcactgac attaatacta accagggttac 360
aggaattgaa gtttaacatt gtacaatata agcggcaata agttactgat atctgctgac 420
aaattccnncn ccaactaaat atatcctgan acntncaaaa ananatttgg t 471
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<210> 9877

<211> 560

<212> DNA

<213> Homo sapiens

<400> 9877

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cacagaacat acttaatttt ttattttgaa attccctatt ccctctatac aagaaacttt 60
gctgaaacag tttccacaaa ggcagcagtg aattttcaga aacatttaca ttttttcccc 120
ctcagcaaaa agataaatca cagtgtaaat tatgttggtc tgctgtcatc tttggctggg 180
gttagacca naagttggtg actagcaaac caatatagcc aaatgttgct agtgctcctt 240
aggcctttta gctataaact cancaaggaa tgtctgcatt ttatctcttt aaggtaccac 300
caggggggta tgacagcatt aacttccata aacttttata gacaaatgga aaaaaatcta 360
caaaatttgc tagtaatat acacagcaat acacactttt tatactctac acaaaaccaa 420
aattcttggc cttaatngcg aattacaatt ctgtttgaaa atctgtttan aagaataaaa 480
tggaagttna ttccaaaaat gccatttttt cccttagaaa antttgncc cccggtggcc 540
catnntaata agngaaggc 560
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<210> 9878

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9878

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gagtgaacaa tttttattga aaccctccaa gattaaagag gaccnaatgg tgagtttggg 60
tnccataaca naaaatctca cctaactgtt ccatcattca caggaatgaa caaacccaaa 120
cacgacaaaa ttcaaattct catgtnattg ctacaagtga atgtnaatga actaatcatt 180
ttatcataac cttcctttta tcatacgaaa aagggaattt acatggcata acaaaagata 240
tgcaaaactt aatgaaaaca caattctctt aaatttctta aacttatttt taaaggatgc 300
agaatgcact tgaaatgatt aaatgactta agctgattca ttttttttta ttgcaaactg 360
ttttaacatc agcttaaccc ccatgcacgg tattcaaaaa gaacacagct ttcgaattag 420
aaagatcact taaattaaaa aganaaatta agttctaaaa ttaggaaaac gctggaattc 480
cttttgaaag gaatctccnn ttccattctt ttnaaaaatc naattttggt tacggttccc 540
ccctnccggt taatntccaa ctttatcccc tnccaattaa tt 582
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<210> 9879

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9879

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gacttatatc ttataggatt tatcacaaaa tgttactgcc cagtgcattt ttgcaaacaa 60
taacaattca ctganagtaa taacattcac atatgtaatt agagttaaaa aatgtaaaaa 120
acttagggta acaaacactt taaacttatt ttttanacat tcaataagcc cattctccca 180
caaactgttt gattacaaag aancacaatg ggttaactgt ggcaaaacat aanaaataag 240
gcagggggagg cagatacaga cttgagaaca taaggatatc caaacaattt tgtcaatatc 300
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aaaagacaaa atcaaaacat cttttataat ataaaacaaa tccatataat taaataactaa 360  
 ttaggtgaaa gattataggg tatataacat ttatittctc tacataaatt tgcataatctt 420  
 aaatttaatg caaaacatca tgtttcaact tccacttaac atcataacat gttattcctg 480  
 gggaatccaa aatttatgga atgaatattt aaattgactc ccaanatcca accagttttt 540  
 attnggttat ggtggcctta antcctnaan ncttcccttt tt 582

<210> 9880

<211> 578

<212> DNA

<213> Homo sapiens

<400> 9880

gctgttggtg cttgtgcttt tgggtgccata tctaanaaac attgccaaat ccaaggtcat 60  
 gaanatttat tcctgtatit tcttctcnaa gttttatggg tttagctctt acatttaggt 120  
 ctttgatcta ttttgaatta atttttatat atgggtatgaa gtacaggtac aaattcattc 180  
 ttttgcattg gaatattcac ttgtcttagc actattaggt gaagacactg ttctttcttc 240  
 attgaatggg cctggaaccc ttgtcaaaaa tcaattgacc atagtgtatt ggcgtaattt 300  
 gtttctggac ttccattct actctattgc tttatatatt tttataccag cacaacactg 360  
 ttttgattga agtanccttg cagtaaattt tgaaattgga aaatgtgaat ctttcaactt 420  
 tattcttggt ccagatgttt tgaacagact tgaattcctc cgttacttgc aatccctata 480  
 attcnagggt cggctttcca ttctgttaa anggtcctgg aatttaattg ggaagtttta 540  
 atccttaaaa aatttgggaa ttagccccct aacaantt 578

<210> 9881

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9881

acataaaaatt atctcactcc attttattta anattttttt atccagtttag taaaaggaan 60  
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 aaaggcttgg catttttctg attccctcta aatagcatct gtacacagga atctgggttt 180  
 gagcagggga atcttaatga tttaaattaa atgattcccc tataccccct actccaaaaa 240  
 agttttaaaa atcaatctat cgaaactcaa ttccgcgatt ttcaggtgtg caaatcaaag 300  
 gcttgcccgc ccggaggtag ctgctccacc aggagatca ngcagggaca ggcagaaaca 360  
 cctcccatgc aaacactgcc cctctgtctc tactggaggg cagcaaactc angctggccg 420  
 ggctgggaag gccggtgccn aacctgcccc tctctccgcc ctcttcacct caatcctgct 480  
 gtcccttctt ctctcattgc aatataaana ntgcatacac ccaaccaggg aatgaagggn 540  
 ttaccaggaa aatnttcttc cggatgggca angggantct ccaaaang 588

<210> 9882

<211> 456

<212> DNA

<213> Homo sapiens

<400> 9882

cataactttt catagaaaaa tataaatata ttccctgaat tgtaaganaa aaaaataatt 60  
 ttaacagcca gctttcacca taaatgccag tccatttctt cttaaataaa ctggctttcc 120  
 ctcaagggtca taagggtgcaa ccattgaaat ctaacacatt ttctaaactt ctgtcatcat 180  
 ccccatcatg gtatctcaca gtccttctac cctgatttct cgtttttatt tttgaacgtc 240  
 gaaaaactct tttagatttt gcatagtcca aatcctccca gtcattatca tccacactta 300  
 acctagggcg tttgctttgt ctttgacgtc tcacagtttt agatatgtta gctgtaaaag 360  
 ttttaccttt tctaactact tttgcttttc ctttcgtttt ccncntttg gggtttgtnt 420  
 tanccgtaca ntccaaatct gaatcnattt ccnaat 456

<210> 9883

<211> 509

<212> DNA

<213> Homo sapiens

<400> 9883

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attnnnnngc acatcccttt tcactttaca gtacatttga ctatagtgca caacatgatt 60
ccgagtcaaa acagtggccc attgggcact gagcttctga ttggtgtaag gcagtccaat 120
cagtgcctggt gtcactgggt taccccaacc atgtccggcc aaaatggcac taccagtggt 180
tagtgaacca tctaattaaa accaaaactc cccagggaa aatgctacac tatcagagtc 240
agtcttgagt cagatcttta tttggtgctc catccanata tatttttagt gctttctctt 300
tacgangtga gtatgttaca cgatgtccag tcttctggan tcgactgctt tcttttttca 360
tcagttcatt tctttgctca tctgtcaatt ccattaattc ttctgtttta tccctataaa 420
atatgaccgc cccctcctcc cngatattaa gangcccaaa ntcccgggtt aaaactttan 480
gaatccctc caaatccnga anaaaatcc 509

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<210> 9884

<211> 423

<212> DNA

<213> Homo sapiens

<400> 9884

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aatctcaagc tgcttttatt acagaagtaa tacatgtttt gtacggaaaa tgtagaaaac 60
ttagaaaagc tcaaacaaac ataaaaatca catattaacc cagtacctag aaggaaccac 120
tggtatcact ctgcagttta ccttcaagta tttttctaca cacgcacaca aaaaatatat 180
acatcttatt tttcaatctt attttttcag ttatgtagtg aaacagcttt tctggcgtac 240
agcctacgaa cttgagcgct tgtgtggatt ttgtcctcac aaccacagcc agcatacaca 300
cagctctgcc acccaaaaca ctcttcaccc tttctctggt ggtcntgcct ccccgaaacc 360
cngcctctcc anccaccgat ctgggtctcc anccccangg tctgtnttct ttttganaat 420
atc 423

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<210> 9885

<211> 546

<212> DNA

<213> Homo sapiens

<400> 9885

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aagattaaaa aatgctttta tactgctgaa gtctttcaat tctagagcag gcatagaata   60
tatagaatgt ttaccttatg accagataca acctcccaag aaaaactgga tcctgcaggg  120
cagctggtct tcacagtcc tgctgggact acagttgcag aagtcattcc atcacttttc  180
tctttttaag ggagttaagt acaggtnaag gaactcttcn agcaaagatc ttaataatct  240
cttgattatc gatgtccgtg gaggcttttt aatccttcen ttgcttctgc attcttganc  300
cttggtctct ttcactcact ctctcctaata tctcctgtct ttctgaatgg gccattccag  360
ttttcaatag gtgacttcta tttctcngt gttgggtgtg cctanggttc tgttgtgtgc  420
atttctgana tatattaaca ctccgggaaa tcttattgac aaatcccca ttacttaaac  480
attgtcantt ccnggcnaa atccctatct taactcngg tcnaancnc cactttatgg  540
gctttg                                         546

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<210> 9886

<211> 557

<212> DNA

<213> Homo sapiens

<400> 9886

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gaaatggtac tgaatatatt tgttacatcc tgaatcaacc caatagacta tcttgtaaac   60
aaaatagtaa ggtaacactt caaaaacaga tgaacaattt atccaccaag aatgtatata  120
gtaagccaaa agctcactgt ggaaatacac ttagcatggt tattagaaaa tcacaaagag  180
taatgtaaca agttacaaa ttttatggtc atgttctgct tgataattca aataggatgg  240
atggtagtta ctagtttnci atttgtgttg ttttaacatc tccattgatt tttaatgctt  300
tattttttat ttgaatttgc tggctggcag gtttgctttg cttatacat tgactgcaac  360
acncttattg ttgtgtttgg gtanaataan acntncgana atatttttta aaggcctntg  420

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gaaggttcca tggaaaaatc cgaatactcc ataaccctgc cgttccaaaa ttccactgaa 480  
 tgcctgttat tngggcacca acggaccctn gttggcaggt ttttncnnc aaaacaatgg 540  
 ttggtntncc nectgct 557

<210> 9887

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9887

actgaataca accctccccc gtgaaagcca agctgggtaa tgctcttgct tcccaggatg 60  
 gtgttgacagg atgttgcaaa atggaacagt aataaaaaaac cactacctca ttatctcatc 120  
 atctgctgga gccaggcaaa tagcttcctg attgaagctc aacaaaaggt gagangtccc 180  
 ttgggttgct gtgtacctaa aagctctccc atatctcaga ctgcaaacta cctgtttttc 240  
 gtgcaganag aaangcctct aggttcagg ttctggactt tgcctttaag cagattggct 300  
 ttgccagaat gtctcctttt cttatcactt aatgctgttg cctcccagaa ctgatacttc 360  
 ccanataacc canancaaat gtgaaaaagc acancatgcc ctgagaacga tttctaanaa 420  
 actgcatgga ctccatcatc taanaacatt acatgttggt ctctatact tcntaaccag 480  
 ccagcntact ccgaatatct gaaattagtt nctentatat ttncagggtt gtttccccnc 540  
 ctgttcctna tat 553

<210> 9888

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9888

aaaaacatgt taagatgttt tatttcttaa tcagctaatt tgactgggaa acaaanatgc 60  
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cctttgctca caagttttgc ggctgccaat tagtttccan agtcgctatt ttacaaaaat 180  
 gcttctcact tttaaaaaat gtaattgaat gtctgttcat cacagagttt cttgtgttca 240  
 agcccagggt gttaaacatt tttcagggtg acttgggtca gctttgaaaa atttcagaca 300  
 gtgaaacttg anaagggacc gtatgctata ntgtgttcct cacatcctgt taagtattaa 360  
 gtggatattt aaaatggant tgttatcctc ttgactgact taaagtgagc catatanttt 420  
 accanactat taattaaatn aaaaaaatgc ctgggatgcn catttntttc ntaatcatcc 480  
 cattggnccc ga 492

<210> 9889

<211> 441

<212> DNA

<213> Homo sapiens

<400> 9889

aagcttacc tgtaattttt aataacttta taaggagcaa atgtgtcacc ttaaaaatgt 60  
 accagtggca tttacaaatt ccttcaaact catttacaaa tacagtaata aaaattcctg 120  
 agctcccttt tcttacacca gtattcacca atcaacatcc atgcggtgtt ttatttgacc 180  
 cacatcctct ttccttttct taagaaaata ttttatcaca ttcgtaaaag tatctgtgct 240  
 tcaagtcagt ttgtaagtat ctgtttttta tgtgaatctg atgataacaa gagaaaaatg 300  
 cttaacatta ncaggggcag cangaattga ngggtggtgt gggggacaat ggaaggaaat 360  
 atnaatacca naattccagt ttangtgttg ggacttccaa ggtanaatac atctgacaat 420  
 atcaaaaaca nactcnnttt c 441

<210> 9890

<211> 579

<212> DNA

<213> Homo sapiens

<400> 9890



ctggtaaaac tgtagtttat ttatcaaaaa atgtgaattt ttattttaga aatgtaggtc 60  
aagcattgtc atagttagtag tacttaattg anaataatgg nttcnatttg gaagantcna 120  
tatacnatt aaacaaaatt aaacagtta aattataatt cataataatt ataattctca 180  
tttttagatg gccaaaatat attgttttct tactataaag tgttatttat tcatcgtcta 240  
tttttactaa ttatattcaa ttcacagtag tgacatcaaa gggacaagtc atcataggtc 300  
tgagaccagg aaaacctggt ctgttttaac agaagcgtgt ctaaaataaa antacatatt 360  
tcaattaggc cccccganat ngaaaagaac ccggaatnct cttgtttttg aaggcctgaa 420  
ttccagtttn aatgttattc cttncgcccc ctgaaataat taaaaatttg cccatanggt 480  
cggtgctatt taaggcgggt tcaaccctt ttgaaattta ccacttaaaa nttncctnt 540  
ggaaaanaaa aaaaaaattt tgacgttttg gttaaaana 579

<210> 9891

<211> 522

<212> DNA

<213> Homo sapiens

<400> 9891

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tacaagggnc tgccaccatg cctggctaatt tttttgtatt tataagtaaaa antaagtttc 180  
accatgttgg gcaggccggt ctggaactcc tgacctcaga taatccacct gcctcggccc 240  
cccaaatttc tgggattaca ggtgtgagcc accatgcccg gccagttttc tttttttaat 300  
aatatctttg cctatctttt gtatcataat tctggcctca tancgggaga aagaaattat 360  
ccctcctcct ttagttttct ggaatatttt atgtnaaatt ggtattattt cttccctaaa 420  
tgtttantta aaattgccca ccaaaccctc tnggnittna attttccttt ttnaataatc 480  
ccantttttt aaaattgttt tcctttaaaa aanaaaaggg aa 522

<210> 9892

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9892

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ggcaactttc tggattact tgtaaacact gggttccttca actttctgat attacttgta 60
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caccacagca cgcttctggg gtccaggana ccgccttcac tactgtgctg gccccgcctg 180
tgtacgggcc ccggggccgg gccatccaag gtgcctgtgg tgctcacacc cccatggcgc 240
tcttctcgct gtctttgggg ctgggctcct ccggantctt cttcatctcc caacccctga 300
accaagtgtg tgcggaagac cgcccaacac catcatttnc tctccacaa aaagaaactc 360
ttggtctccc cntantaaa acaacnggcc aacaattttc tnggcacaaa ggcctttggc 420
cgtgccccaa naatttnttg gttcacgga atggttaaaa ttaaantttc cattcctntc 480
ccttnnccca atgggcaaaa ccaaaaagg gccncccaa 519

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<210> 9893

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9893

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gcttccaaat gcaattcttt taataaacag taacaaattc tctgttaaga tgtttaaact 60
gagagaaaaa aaaaaccag taaatccagc ttttaaaaga aaattcaata aatagctatt 120
ttacatggat aaagtcatag tggtaacatt tatgaatgtc acatcaagca tgcacaaaaa 180
tggattata catggcagaa gtagtcagaa aatattgaat tagatctaaa aagatatgaa 240
gaatttacac ttatatacaa aaatcttgca aattattgcc tcnttttaac aaggaattaa 300
aagtaaacad taccagctag ttagcactct ctaagaaggg taaaatcaga ttgacattta 360
aaaatctatt aaactagctg gaatttattt ttctctcata ccattttccg ggattttggg 420
ccaaaatctt tatttaata actaaaagtg tccatccact tgctgataat ccaaacttta 480
nataaaaaac ctggtttccc ncttntttcc anaaccccc catggcttaa ataactgaat 540

```

nttttctgct cccccncgaa aaagggng

568

<210> 9894

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9894

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 caatcttgn tcactgcaac ctctgcctcc caggttcaag cgatcctctc accttggcca 120  
 cccgagtagc tgggattaca ggcatatgac accataccca gctaattttt ttgtagtttc 180  
 agtanaaatg ggggtctcacc atgctggcca ggctgggtctt gaactcctga cctcaagtga 240  
 tacactctcc tcggcctcca aaagtgctag gattacaggc ttgancactg catccagcca 300  
 ctcttttttga tttctttacag ttcatatgaa nagaacaaca tttgtgcaat gaaatgtcca 360  
 tgaaacaatt taaacccttc acaaatttta gaaagaaact aaggacaggg atttttttta 420  
 tgttacacta accccnaagc attatcttta tacactaaat gcattatgct atagtaagaa 480  
 taaattccaa tacngctatn ttttttttaa aangccaatt ggaaaaaatt tgttttctccc 540  
 tnaanaacce cccttttccc gattatccct ccttaaancc aagggcccn 589

<210> 9895

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9895

gaganagtgt ctgctctgt tgcacaggct ggancacagt ancgccacct cggntcactg 60  
 caacctccac ctccangtt caagcgaatt gctggganta cgggtgcata ccaacatgcc 120  
 ctgctaattt ctgtattttt agcaaaaana gggttttacc atgttgcca ngctgttctt 180  
 gaattcctga nctcagggtga tccgcccacc tcgaccaccc aaagtgctgg gattacaggc 240

gtgagccact ggcgccagca aattcttact tticatatgt tgaacgtgca tgcaagtgtg 300  
 atcctctagt tttcttattt tctccactt tacaactctt tttgtcctcc tccgtgggag 360  
 ttttctcaac tttatcttcc aaccctctaa gaatttaata ttctgaattt ccaactcttc 420  
 tatgaagtgt ttcatattct aaatttctan aaactcttgt tttctgggcc tgctttttca 480  
 taacancctt tcttgtttca aaaatcaata cctttattct gaaaaaacat ttactttttt 540  
 acaaaacttn tcnccccg nannttttcc attccccnn c 581

<210> 9896

<211> 472

<212> DNA

<213> Homo sapiens

<400> 9896

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 catctccgcg gggcctgccc gagccctgat cctgcagagc cgtggggctg aggtagccgc 180  
 cggttgtggt ccaggagtgc gtctttctgg atgcggggca ccttcatttc accgtagcaa 240  
 ccgggtacca aaagtagaag cggatttttg gaaaatgagt cattaggtcc caaagagaac 300  
 ctattgcaac atggactcca taacgttctt gaggatcatc ctgagaaact gatgtctctc 360  
 gttagacaaa aatgcacgat ttgcttgga aaggggagta aaaatggtgc tggcatccat 420  
 tggctggctg ggaacttgaa ccagcagctc caacaagcga catgtnnnnn nn 472

<210> 9897

<211> 558

<212> DNA

<213> Homo sapiens

<400> 9897

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aaataatgtc aaagtctgtt acataaaaca taattatgaa acattttaag tcttatcatt 120  
 caaactactt aaaaggntca aagtcacaaa anatcaagca aaactgcccc ggcaataaag 180  
 tgcacgaggg gagccccact ctccagcggc cgtcagcacc canagccgcc agctgagggc 240  
 tccatgccga atccatacac aaggtttgtg gttctcagaa nagttttcag acaggaactg 300  
 tttccaactt aaaatctttc aacagacaaa tggangtgga anggggatgg ttacacaaa 360  
 gtatttccaa atgtaatcag gaaatggaag tgtnaattaa aaccgttttc acatgtntct 420  
 cctctttaga aatatcctgc ttgganaatg ttttgacaac cacccaattc tccnaaaacc 480  
 ttntccccca aaatactggc nggacncnca ttactttgct tttcttatta aaaaaaattt 540  
 cccatttgaa nccctttt 558

<210> 9898

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9898

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 gcatttcgcc ttgttggcca ggctggtctt gaactcctga cctcaagtga tctgccccgcc 180  
 ttggcctccc aaagtgctag gattacaggc gtgagccacc atgcctggca tttttccata 240  
 tgtctttgaa caaattatta actctttttc accttggttt gctttctgga aatggggctg 300  
 anaataccta actcctagga tacgtcaaag gattaaatga ggcaatcagt aaattgcccc 360  
 acaccatttc tggcacaaaag tagatacttg gaaaacaatt ccttcccttt ctttccccaa 420  
 atgtcaaggt gccagcattt cttccctcaa tggcttccct ccagtanaa aatnttcac 480  
 tccnaaatt taaaaggcat ggcggtnggg ggaanggaaa attgggnatt nctttaactt 540  
 tc 542

<210> 9899

<211> 461

<212> DNA

<213> Homo sapiens

<400> 9899

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aaaagaaaat catgtacaga ttttatttct gntgaanac acaaaacaat ttcaacctct 60
gggggtcaaa ataatttaag gatcttgccc tttgggggtt attttctggt tcnactaagg 120
anaganttca gaanggntag cttcccttgi tacgttttta aacatctttt tcatttggtta 180
gaanaacatt tcaaaagccc naattaaatt atcattaaaa tactttgaca ctttacaatc 240
ttccaagtgg aatttaagtt gtatgccttg atactgtagt tttacagttt ccccatcatt 300
ggtaaatatt cttctatgat gccactataa tgctactggt agaaaatatg tgcatataat 360
ttatcagtat attttcntgt taaattttat aaaaatctcn aagttatgaa nanagtttta 420
cnccccncn aaactaagtg tttgccaact attacccta a 461

```

<210> 9900

<211> 554

<212> DNA

<213> Homo sapiens

<400> 9900

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cctngtgcag tcaacaagtt tcattttagt tgtgcttaca ttatataact gaagcctgaa 60
cactgattgt gtttttaatt tacacgtttc aagaaaacca taattaaata ttcaccatat 120
acaacaaatt gaacaaatgc aacaaatact catttgctcc caagaaatta atctatagaa 180
aggaaacatc tttttaaaaa gttgaacaca gtctgctatc caggctacaa gtacatattt 240
actgtgttac agcacattat tttttttaaa gtccgctttc aacataaata taaataatca 300
cattttaaaa nagctccata ctaagttttc aggtaagtgc taaacagttg gccagtagca 360
actacttacc attatctttc tcacatagag tgactagact atctgcgaaa ctgtataggg 420
tgatgggcaa ggcaaaatga aacatctttg ttcaccatt gaataaacat tgtgttctaa 480
atgccctac tttctaaata cccacccatg gaatgcaatt atttaaaaag ntggtttta 540
ggatcattat cctt 554

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<210> 9901

<211> 437

<212> DNA

<213> Homo sapiens

<400> 9901

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ccattgaana gcgacattca ttctggaatg tttgttttga aaacaactct tctgggggaa 60
ttcaaaaggt actgaacaaa gcaacgtaaa gtaagttttg ggttgttttg caaaataaaa 120
atatacaatt gagtggacca natggcaaaa acataccaat tacaatctga atgctatatt 180
taaaaccctt aaattctgaa ggcctgaata tcaacaaacc tatttatgtt tatgataccta 240
aaaagacatt aaatattatt aaacccccaa cttccaaaac atagagaccc ancaaactgg 300
gctagtggta tctcagtaca cagtcacaca tgactagact agactagact agactagact 360
agagatctga gtttgcaacc aagtncaana ngctctttaag anctcangct aagggangcc 420
tttattcnaa tgccttg 437
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<210> 9902

<211> 518

<212> DNA

<213> Homo sapiens

<400> 9902

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gataggtagt cagatTTTTT attttcaaac gtgccaggta catttccac ttttgaataa 60
cagcaaaacc ggaanangat gctttcacac ataataaatg ttctccatcc tttctgaaat 120
gcaccaaagc aaaaagcctc tgaagtcaaa acatgagaca taattccttg ctcatcgcag 180
gagacatgca ggtgccccct cctttacca ataccaagag acanacggcc gggcagggtg 240
aaggcgggtg gcgctgcagc tgacatggag aanagtctaa atctgaagac acttttccac 300
acttaggaca agttcttcac tttcatgctt tattgaaagt agaatatgaa tcaaagacag 360
gcattggtaa gcaggttatg tctctaaaat tacttttctg tcagancaga atgttgcccc 420
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atctacttga tacaatcctt tatggaccaa cncntctngt ttgaaactcc anccaggaaa 480  
 ttttaccgaa cttttttccc cnccccnan taataatc 518

<210> 9903

<211> 469

<212> DNA

<213> Homo sapiens

<400> 9903

gtctgaaact ttttcctttt aatatggttt acattctatc tccagagaaa acacacttaa 60  
 cagaagacag aaaacattta acaaatccaa agcaattaaa aatagccaca aaaaaagaga 120  
 ataacctaga ctgacagctc acagagcaag gaggtggcag anacctgccc aggtgagctt 180  
 ggctgttgcc cccagctcaa tcttcctcct ctctctctc tgtcccttca cctctgatca 240  
 gtcccagcct gattcccggt ccctgatgcc tcaccttctt gctgccagat gcctctagga 300  
 actagggtcc ttcagactcc agatgccctg gcctgggcct taggacatct tgacttcccc 360  
 agtggacagc tggacagtgc cctgctctca cccacagctg ggacctgaac atgccatgag 420  
 gccctgtntt gaaattgttt ttgggtnggg anggtncnccn naatttttn 469

<210> 9904

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9904

gttttaaaaca gaaaagaaaa tgtagttggt taaataaaac gatgttcttc acaaatttta 60  
 ccttagggtc acaggttttt ctctctatct gtttaggaat aacagcttga aaagcagtct 120  
 cttctttact tcccaggagaa gagaactgca cagactgaag tggttcactt agttcaactt 180  
 catcttcttt tagtatctgt tgagaatcct tgtgcagatg angagacttt ggtgaaacta 240  
 ctgtaataaa tggtttctc acttcaggag ggctatctgg ctcatagctc tgttgagttc 300



cttgctgaaa gacagtatTT ttctttttca atatttccaa gctgtctaaa gcagtactgt 360  
gttcacatag cgactttaaa atanaaatgg tatttactaa tccagaaagt tctgaanaat 420  
ttctangatc cagtattgtt tgnctctctg gcagtttcaa cctcaacatg gtccgggggg 480  
tggaattcta atctttcccc aatcctccag gtccnaaaaa aagttcctcc gtntcttngg 540  
aaataaaaac tttttc 556

<210> 9905

<211> 509

<212> DNA

<213> Homo sapiens

<400> 9905

aaatgtaact ggacaatatt taatcatata cactatTTac atgtaattta tgtcataatt 60  
ttcttaacat tcaatttcca agcctttgct cttggaaagc ttccctggag cttctgggag 120  
gttatgtggg ancacagcct tatggcagga ggaaaatggT gaatccaagt caggtttcgt 180  
gcaatccatc tggccattct gaggtgtgtt cttttgagct aanatcctgg tgaattctct 240  
cctgtcaatc cctgtgagca tgaggagtga tacatacttt ggttctgaaa aaanaaatgg 300  
aaaaaactac aggttcctct gctggcaaag ggaangggTc tttccctgan aaaatccgtg 360  
aaaaacaaaa attcccatct gcttgccTTt gcccantgca tgactgaatt cctcctttgg 420  
ggaagaaaga aagcccctnn aaggcaaaat cccctctcct cccaattntt tttgnaaaaa 480  
ttctttccaa gcttttnttt naaagcacn 509

<210> 9906

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9906

atttgataa tatgtctttc aattacaaat tcatctacag tagaaacaga agggaacata 60

aaagtatgat ctactttaca gtaagctggt tttaaaataa aaattacaga tcaatagtga 120  
 aggtgaggaa atttaactga naaaattttc aaaatattaa aatattcaaa aacattgaca 180  
 catgaataat acctatctta aagtaataat aataaatgac atgtgtatac aaacacattt 240  
 aacatgaatc aggattttct gttcttgatg tcagcaccta ctgtctaacg ggctgagaca 300  
 aaatactgtg ccttcaagag ttagtcccat tttgaacccc tctgcatct catctaattt 360  
 tgattgaata tctggaggga aatctgctgc tccacagtta aatgggtcaa aaagttctgc 420  
 tccaaacaag tcccgtttta tctcaataaa tctctaagtt ctggaagtgg tgtntnccat 480  
 tgccaattag gctccaaaaa aggtgtnatt tngaaaaaat tgaatcnttt ccaaaatttc 540  
 ctggganggc aaattaggtt tcttctgccc gncggaagtc ngaaacctn 589

<210> 9907

<211> 595

<212> DNA

<213> Homo sapiens

<400> 9907

aaggagaaaa aagtataaaa atttcttttc ttattacaag aattccaaga tgtgtcagag 60  
 ttgaccagaa gcatanagaa aactacatag tcgagtaccc accaggggaa tgttggtanaa 120  
 ttggcagtct gttggtctct ttgtaatgtc agattaaaga aatcacctgg aggctgacat 180  
 tggccccctc ccttcccagg aggcagatct ggcctaaata cggagatgcg tncaaagaag 240  
 acctaggatc ncaatcgttc ttagccatca aactcttctt ccaggtccta gagaaagtgg 300  
 ccactctata ccaaagccaa agaactgcag agtactcctc ttggttgggg tttcatattg 360  
 ctcttgcaat tcagtttctt ctcatctttg ctgtcatttc gtgggtacca acagccttgg 420  
 ccangtgtga gaagtgtcca ttactattgt ttgctctgac tatcttgccg caagatccca 480  
 ttaagggtga accaanggcc tggatgatct ttgccttggg acanaataat tgggtgggtgt 540  
 gtttcctntc cccccgttgc ccccgttttt tcccnaggg cgttnaccnc aattt 595

<210> 9908

<211> 389

<212> DNA

<213> Homo sapiens

<400> 9908

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agtggcaact ggtatatttatt acaattatat acagtcctat cttccgttct gaggtctata   60
catgatcaca caaatgaaca tgtgtttcct ggggggaaag acaaaactgg ctgttgggtca  120
ngaagccctg ctgcctggct cctcctccgg agtgagcccc catctcgcca tgggattagc  180
tgaaccatta cacggcaagc gggggcatcg gaagcgcanc gtggtttcat ttgtctggga  240
agacaacggg gcatnaatgg ggttggggct ggggacaagc acctgacggg tccaaggccg  300
ggcccagggg aaggaagggg atgcanacac canaaggacc ncanctcctc ctccactnaa  360
gaatccggaa gcantangga cctactctt                                     389

```

<210> 9909

<211> 573

<212> DNA

<213> Homo sapiens

<400> 9909

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gcaaataat ttatattttat ttgtctcat acacacacag aaaaacagat aaaaatctag   60
cctgagattt aaaactcact aaggaaaaaa aatcacagca aaagcagtag gttaacatca  120
ggatatttat attcaaggnt ctatggtatc aagttttttt tctctttaga nccaggcatg  180
gtggcatgca cctgtggtcc tagctactca cgaagctgag gcaggagggt tgcttgancc  240
ccagtgttg aggctgcagt tagccgcgaa tgcactgctg tactccaatc tggaaaacag  300
ancaggaccc tgtctctaaa aaatttgaga ttttttaaag tccatatttt ttgtttattt  360
aaacgtggta ttattcaaca ttgatgaact tgggtcgtga gttctaaaag ggattcaaaa  420
taaaatggca ttttcacttt tttaaaatta agatactttt cntgatcaaa aatatgtttt  480
tgttccccc ctganccccc tttccaggtt ggttaccac ttncaaaatt taatttggtt  540
tatnctcaa anaacctttt ctttaatct tac                                     573

```

<210> 9910

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9910

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aatttttact ttttctcaag tttaatgtag acatacaaga aaacatcaag caatgtttat   60
tgtgcaattc caatcattat ttgcagaatc ttggtttaga gtcagtcctt atagccattt  120
caactgcttg gtttaaaca aaagcaaca tctggttatt tacctataaa tttcacggta  180
tttctttaaa cactgaagta ctaaaagcac tgatgatttg tattataatt tttaaaatat  240
ttaaaaccta cacagatttc atagatcatt cttttataa aataatcaaa ataatttgat  300
tatctggaaa aaaaaattct tgaaacagag ccctttccag gtatcttcaa tctctgtaaa  360
accccaaacc ccnaacagag tagatgatga aataaggatt tctcagttgc ccaagactgt  420
ctgaaattta aggtganaaa tggactggcg tttttcatgt ttctgtgaa ttcaaaactt  480
acaggtggga tcanaactcc atctctngga anggtttact tggttcctt ttgaattggg  540
tcctttccat tggttcctt cccactcct                                     569

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<210> 9911

<211> 549

<212> DNA

<213> Homo sapiens

<400> 9911

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gttttttttt ttttaactgat gtgccagttt ttgacacct ttattcataa gtcaatatat   60
ttgtcagttt gaatgttata cacatgataa aatagattat gagaagtatc atatttacaa  120
taagaacact attttatata actgactcac caaatatgca acctcttgca acaataacag  180
aatggactca actccatcct ttgaatagac caatttcatt attctcctaa aaagttttga  240
gttgagtata gttccttggt gcttctctct gtgatccaga gcttaagaat caatccctgg  300
aaaccagcca ctggaaccag acctctccag aattgagaag agacagcctt agaaaaaagg  360

```

acacaaaccc aaaagtcttg agcgctgtgc catatgcttg atttcaganc attcaggcac 420  
 tcnaggtcaa gtgtgggggc atatatatat atgttctgtc atctcaaag ccacnacngg 480  
 ttcagttngc cgggatttcn aaaaaaagaa gctttcctgg aagaatgnat centcccccc 540  
 attttnttt 549

<210> 9912

<211> 515

<212> DNA

<213> Homo sapiens

<400> 9912

aggatanag tctatgttgc acagtctggt cacaaactcc tggcctcaag tgatgtttcc 60  
 tcctcagcct cctaaagtat tganattaca gctgtaagcc actatactg gcctcaaaat 120  
 tatattaatg tctattagtt aacttgaatt gtttgtgctt gtcttggtgg ttttaaccct 180  
 acttatatac aagaattcaa aagtattttc aagccctatc atttagttgt aaaatatacc 240  
 caactcacat ttatagactg ccaactaact tgaatgtttg tacaggcatt tctgctgtga 300  
 tgccatgtgt acctaaataa aactcacact ctataaaatc acacactaaa ttaaattaac 360  
 agggtatag aaaaaagant tataggetta cctctcaaaa tctatagact tttgtgacta 420  
 gaaagcacta aaaaacagca ataatacct attaacngtt ttaccggtta atctctccgc 480  
 nanaaccn aatncngggg aatncttgg cacct 515

<210> 9913

<211> 510

<212> DNA

<213> Homo sapiens

<400> 9913

ccgaattatt taacttcatt ttattattat ttatgctcct caggtaattt acatcgactg 60  
 catctgtatg gtgaaaatat agtataatgg ggtgctgctg tgaatctcct tccaattctg 120

cattctgtga tatcatagtg gtaacctgaa atccaccata gtggggacat ttacacaata 180  
 actggcaaat gctacaaggc tgggcttttt cagttttgtt gattgtctgg acataaaaag 240  
 gtaatacaga aaatgttacc aatacaagca tttgggaaaa ataaactaaa accttttgtg 300  
 aaaaacaaca ggttttatgg aatttacaat aaataatact gtatatttta ttatttataa 360  
 attctgtgct acacattctt catatcagta aaacttaaaa catatatatg ttatccatac 420  
 attttgtttt ctanaaancc actgggtgaa cattaaccaa cacactactg ggaatttccn 480  
 nccnccaaag tttttttagg tnggggangg 510

<210> 9914

<211> 554

<212> DNA

<213> Homo sapiens

<400> 9914

gactgaaaac tactttatit gaagacattt tcttctatag ttctaaacac aaaaggaatg 60  
 ctgttatagt gggtatttca taggcattct tgtattcaaa tgaatcacat aatgtttaca 120  
 cttttaagct agacttgaaa ttgaagactt aatacaacct ttaacaaag aaagtatcag 180  
 tcatatcaaa acataactat tcattctaca gattatcact ttccctaaaa tgactactan 240  
 atatgaaaac attgcaggga cagctcaagt gccccattct taagggtttt ttttaatagg 300  
 aaaaatgaca acgtaaatca cattttcctt ttctttacta gtaatgaact atggcaatcc 360  
 atttgagaaa gcaccagcca accgtacaag tcatttcagc accctttgct cttcnaaact 420  
 gaacatcttt tatattttaat gcttcnngt tgaataaaaa tgggtatgtt tanttcaaaa 480  
 ttccccacct ntttatnngg gggttaatta aaaagttttc cccnttcccn aaaaaattaa 540  
 aaaattcncc cgnt 554

<210> 9915

<211> 497

<212> DNA

<213> Homo sapiens

<400> 9915

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gggaatcacc attttcagtt tttaatgtta aaggggctaa cactgtatgg gactcaagac   60
tggttttgaa attctctttt acatcagtca taaataactg attgtaaca ttatttaatt  120
tctgtgttag attttccacc aaactctgag gttcacaagt tggaattaca ttggaatgag  180
ggttagtant tgggatttca acactctttg ctatgantcc cattgttggt aagtcacttg  240
ttaccaagtt ttgggaancg ttaggtgcaa ttagtggagg agcaactttc tttcttctct  300
taaaaacact gtttcccctt tttattttaa tgactggatc ttgtgttctg aaggaccact  360
tntnacanaa acacgaaaac tggtactggt aaaattttgt gatgggcccc cncaattagg  420
aaatgaacta aaacacaaaac cntttccnca gtcctccant attaattcct nccttggaag  480
aanangcaaa ctgctac                                                    497

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<210> 9916

<211> 520

<212> DNA

<213> Homo sapiens

<400> 9916

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cagtggattt ctcaacaagt cttttcaaca gtgatacaca atattcttcc ctttggaatc   60
gggtgctgta aataaacatg tinctatatag ccattttcca atgcaacatt agagtacana  120
acagggtattc tgtggctagt gagtaatact gctgctgtag ggtgcataca cgtaggagtc  180
ggacnangat cttactcagg attgcatcgt antagggaca naaaaccatc ttgttatatt  240
tgaccaggcg agcaaattta atagcaactt cctccagctc tctctgaact ggactgagtc  300
ccccagggac tgtgggcaat ggcttctgat gaccnaggc aaggtaggtt ctaaaaagtc  360
aggattcnan atcccatgat cctgccaatg gggctctggg aactgggcca cggcctggat  420
ctgggccttg aacaccggct ccttgttctt ggtgaaagga aaagaccccc ccnggaaaag  480
cngcttgctc ncctcccagn cnancttctc cccatggtat                            520

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<210> 9917

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9917

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gaggtacaaa tccaacagag ctttaatccc aaagatccag tggccaccag antacagaag   60
tcagaatcaa atgctcagaa tcaaaagggtg tggcactcct gccagccgg cttatcagca  120
gttgataga cagatcagaa aaaactagca ttattataa aaactgtttt tcaaatgggg  180
tgatttcctg tccttctcca nanatcataa ttcttcacgt ttctgaggac cttctcggct  240
tggttctttt gtcttctctt tgtacagtgc tcccgtttct ttctccttct gaaagcggat  300
ctgtagctgt ttgatctctt ggtcgtagtc ctgccactcc gggacaatcc gcacagctgc  360
tcccagttt cggggtctt tgggtctccg gaattattac acaaatcaat gggttttgtc  420
cttttcttaa aaaggcgtca tcacaccacg ttacacacca aaaccattct tagnaaggang  480
gatttaattn gcacctgatn aatcattttt tnggcnatc ttnatcaaaa ttgaaagggtg  540
ttt                                                                    543
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<210> 9918

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9918

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gtactctaag gnttttatct ggtgacatct ttccacagat aaatgtaatg tgtatcatta   60
cacttacatt gcttttatct agcacaaaac ctctgatgag taagttcata gtagttatta  120
aatgctttgc cacattcttt aaaatcagaa ttttctcag catgaatttt cttctgtgca  180
ataagctgtc agcaatggtt gaanacttcc cccacattct tcacatttgt agtgtttctc  240
tccagtatga attatcttgt gatttcaatg ccttgagcaa natttatgga atttgccaca  300
ttctttacat ttgtagggat ttctcttag taaaaattct tacntantaa nggtngaagc  360
agtgattaaa anctccccca cattttttat acttgcngga ttctctctc tttgaactct  420
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cttatgtttc attaaaatgt gagcaccgtt taaaancctt gccacattct cccatttata 480  
 ncgtttgang gcagtatgaa tttcctaata tctagtgggt gtgaccccgga ataaaggntt 540  
 tncccatnct ccccgttgn gggttccnc catat 575

<210> 9919

<211> 500

<212> DNA

<213> Homo sapiens

<400> 9919

gtaaatggtc tcagatactt tcttttgcta aatgggtgta tacagataaa tccaataaat 60  
 ataataattt acttaattca ttatcatcag gaangnctgg aattaaaatt cttgattttg 120  
 agtttataac ggtttcattt cacttattac ctctacatat gatcatttta aatgtcagac 180  
 taattgaact actgaattga atgcaggcta ttagcattaa atgagactca tgcaatagaa 240  
 tataaaggta ttacactgtc cctattttgt gcaactgttta ataacttag gtacttanaa 300  
 tttttagatg tgtntctaataaatat tttt gtaaatacgt cttgaccaag tgttataaat 360  
 gtttctnaca gatataaana tcatttccaa agtttactct catanatttc tgatacgtgt 420  
 aaattccaat gttacctcat aaccanccaa atattccaan tctcanaaaa tgcaaaatta 480  
 caatantccc tgtttncccn 500

<210> 9920

<211> 457

<212> DNA

<213> Homo sapiens

<400> 9920

gaagtgttt ctccagtttt ttggctttac tcgtggcatg ttttaacttt tctctaactt 60  
 gaacatcttc caaatctagc tgtgtaaatt tttctttatt ctctcaata aattttgtaa 120  
 ttttattcag tttcttttct gtatctttta catctttatt cttagctttc atttcatttg 180

atagtatatt gctcttctca ttaatttctt tggatctctc atgaattttt tccttttgag 240  
 tttccatttc agcaattcgt ttctgcaact cataactccc aacttaaagc aggatactaa 300  
 aaagtcaact tcaatgaatt aatatgccta atttaataaa ttcaaccctg gtgatcaacg 360  
 ggangaacag ggttcncacc aanaaaatnc cccacattgg aataattcca cccataatnc 420  
 cttttttgtt aaaaannggg tctggcatgt tgcccag 457

<210> 9921

<211> 507

<212> DNA

<213> Homo sapiens

<400> 9921

attattatac tttaacnttt anggtacatg tgcacaatgt gcaggtagt tacatatgta 60  
 tacatgtgcc atgctggggg gctgcacca ntaacttgtc atttancatt aactatatct 120  
 ccnaatgcta atcctcccc cccccccac cccaaaaaca gtccccanaa tgtgaagttc 180  
 ccnncngt gtccatgtgt tctcattgtt caattctcat ctatgantga gaacatgcgg 240  
 tgtttggttt ttgttccttg cgatagttaa ctgagaatga tgatttcaa tttcatccat 300  
 gtccctacaa aggacatgaa ctcatcattt tttatggctg catagtattc catggtgtat 360  
 atgtgccaca ttttcttaat ccagtctatc attgttgtac atttgggttg gntccaagtc 420  
 ttigtatttg tgaanaatgt cncaataaac atactttnc tgttttctta ataccaccan 480  
 gaattaaaat cccttngggg attnccc 507

<210> 9922

<211> 529

<212> DNA

<213> Homo sapiens

<400> 9922

cctcaggcac tttttatttc atgctgtgcg ggggcccttg tcccaaattt gtggccacgt 60

gtccangtgt ctgggggant gggccaaacc tgaaaaaaga aggccctgct ccaaaaatcc 120  
 ccangttgtc cctgttgacc tatagggang tctgacttca ggcgttgccc tctgacccg 180  
 tgagcagtc tgaatcgctg gctcctattc tgtcacacgg ggtgggtagt gccaaaanca 240  
 gcctcctgca ncccttggcg tccggaanag tgacagccac attcaagtct ccctggcacg 300  
 tgagggtccat ggtgcccctg actcatgtcc tggtccagc caatanccca ncccccatg 360  
 gaaangttcc ancatgtgca aaaatgcaca ttggccangt ggctgcccc cggaacatt 420  
 tttcaaaaaa gcaggggtca ggtnacccaa tntccaaaa tctcatggaa aggtcccacc 480  
 cattggcccc cccaanccaa ccacancagg gtttnaaccn cnaaacccc 529

<210> 9923

<211> 544

<212> DNA

<213> Homo sapiens

<400> 9923

cagagtcaat aactttatta gaaaaagatt aataactaaaa cttttcaatg acagagacaa 60  
 tcaactttgt aacagaaagt cagagatact ttatittttac ttctaaatcc aaaggntaag 120  
 tagagcagag ttgtaaaaat gaaatccac ttagtctgat tcacacgaat actaacgttt 180  
 aatcctgttt tcaaagtcca agattgaaaa cttgcaatta aacactgagc aagccacatg 240  
 tttaagtaat atttcttaaa aagtcttaaa gaaaaaagta tgatacagga cctaagtttt 300  
 cagtggcata tatattatta acacatgttc tgaaatctgg taggtcacat cagtcctgaa 360  
 ttaactttta ataataataa taataaaaaa actaactgag ctttatactt tttctatgcc 420  
 ctatagcttt ctttccctca ctttttaa atgtcatcttc actctatgcc gtncctggta 480  
 ttctnccaaa aatctcnaac agtatncccc ngctngatcn gaggtcttat caaatcagtt 540  
 taat 544

<210> 9924

<211> 366

<212> DNA

<213> Homo sapiens

<400> 9924

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acggggaaga gtggactcaa tttttatttt tgaaacctca tgcacagagt tccttatatt 60
ccccaggtcc cacaagagta ccaggtgcca tticagaacc acctttctaa acctctgccc 120
accactgaa agcaacacgg cccttcacag cctggcttcc ttcttttgac acacagccct 180
tccgctccag tggagaatcg ccaaagatca tgaagggtaa atagtctcct ctgaaccctt 240
ggtctgggaa acccgtttca accccggggg gagcccantg gccactgggtg ctgccaagg 300
gctgctgtgg ggcanaaata acacacanaa gaaaggtngg ggtggnagga accctccan 360
aanca 366
```

<210> 9925

<211> 571

<212> DNA

<213> Homo sapiens

<400> 9925

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aaaggtaaga ncactttatt cttatttgaa ccacactgta ttgttgatta ccgantgtga 60
aagtagtatg ttcagantct tgttttatgc cttttagct gtgttgccag catttgaagg 120
taactcctcc acataagcgg caggaaaatg gccttttttc ccattcaaag atccaaacca 180
ccatccttct tcttttttct cgtgtataat cacaatgtca cccttttcca aattcaactc 240
atcatcttgc ctggcttgaa aagaatacaa ngccttgcaa agtctgctgc tgagctgggc 300
tgcaccaggg gctggagttg aaaaactgga ttgctctgcc caccanaaga tgccttgctc 360
acaatattct ctaatctctt cattaaaaaa ggccgagata tttcacata gctatgagta 420
tgctcctttt ccctcccctg aaanatggaa ttactacnag gatggctggg ttgaagtctt 480
tgctccaatt tctgctacat tgataacagt ttgttgatt cncctccaaa aggtctatct 540
caaattgtcc cncncttaa cncnctntt t 571
```

<210> 9926

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9926

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gctcacggcc atgatttatt acagtgaag gatacaaac aaaatcagca aaggaaaaaa 60
nacacatggg gtgaagtcag gggaaactaa gtgcaagctt ccaanaatcc tccgccagtg 120
gaatcacaga ggatgagctt aattctccca gcaaccagtt gtaacagcac ttgtgaaaca 180
ctgtcaacca naaaagcttg ttagagactg agtgcctggg gtttttactg ggagctggtc 240
acaaaggtag tctctgcctg gcacatacca aaattccaga ctcccagaag gaaagcaggt 300
gttcaggaga aactatattg ttttacagtt tanatatant aagctacttt gatcagttct 360
gggaatggtg gaagccccct gaactccaag ttcccanatg ccaatcaagg gccaaccttg 420
taaagcaagt ctctaangtt aagtantcag gtcgcttcat taacactttt ttctgcacag 480
caattttatc tcacattttt tcttccatgc ccataaatac ncatttcctt aattntcttt 540
aacnagttta ctatctcgg tttccctta ataatccaat an 582

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<210> 9927

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9927

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acactgcttg cactttatth tgtacagaca ttccattaat tattactcaa ttttgagggtg 60
caaaccttct gaatatagct ttcatthtg accaacaat ttgttatggc aataaataat 120
gatgcattga aaaaccaatt ttgtatthg atttaatgca ctcttacatt taagaaatta 180
tatatacatt cttgaatttc aacttaccaa aatagaatag cttttatth acagcctaag 240
cttttgthtt cctgacaaat actgaaactt ttgtttacat taatgctgca aagttgtth 300
tcacctcaac tttctcactg ctttgctcat aactaagtgt gattacatgg agagagaaag 360
tttgtaaca gtaacacatg atttagagtt taaaatcata tcagaaagat gggaattatt 420

```

taaatataacc ttataaaaat aagtggctta atcaatgaaa aaaaaaccca ggggtttttg 480  
gcttataatt anaaaataan tntatcctta gttatagtta attaaaaaaa tcaccaccta 540  
aaanttaaac catccgaant tttccttacc gaaaaaattt tt 582

<210> 9928

<211> 580

<212> DNA

<213> Homo sapiens

<400> 9928

gttaatTTTT tacagcttta ttttagacag atagtttaag aaccaaagac atacctctgt 60  
aatgataaag gaaagaaaac aagctttcct ttttaagaaac caaagagcac aaaataagac 120  
tgtttcatta tacataatca ccacaggata ttaggcactc tgacagggtt aggcaanatt 180  
cttgggtgtga ggtgaagcac aggcacttta tttgtacagt gctgctgatt ctaattttga 240  
aggtaggtat tataaaagtc tttacttgtc accttatttc tggccccaac acagcagcct 300  
atagttttaa aagttctgtt tctccctggg ctttgttcgt atacacatcg aaagtaactt 360  
aaaaacaagg atccaagggg gccatacttc atatgttata taaatgttaa tatgagaact 420  
caaaagtagg cagattatat gaatacatat tcttacctct gctacaaata aaaacacccc 480  
aaacccttcn tcatactttt attaaaattc cgatnttaac tgttnccttt atntccattc 540  
ctnaaaattt ttattgctta atnaatccag atnttttttt 580

<210> 9929

<211> 418

<212> DNA

<213> Homo sapiens

<400> 9929

agaaaggcag atgatttctt tattgtinaag acagcagtta caaaagagaa taaatatgac 60  
attaggatat atttggttaa aatacaaaa aaacccttag tatttgtag caaccccnag 120

aactcacaag tatgggggat aagaacatct acagctggat accctgaaac agatgttata 180  
aactggctaa tggtagtat ggccatgact ttggggatgt ttgaaaggcc ctgcatctgt 240  
cacttgggaa cgtcagcggc ctactgtaat acaatttgca cagagtcaga gtgaacagga 300  
acccttttac tcattgggtat cctaactatt ctttcgttct tacagtgaac ttattacagt 360  
atttaanaan tggggaaaaa ggctgaactg ggaaanacnt anacggagcc nngtttaa 418

<210> 9930

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9930

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gtctgtgatt atttctttac cacatatttc aaaagaacta catacttact tcccattgtt 120  
actgcaatat atttcttttt atttattatt acttagaaag ttacaatgta ntgttttacg 180  
tancctttct ttaatagcag atagaggaca ttttgcatac aaatacaggc agaaaaaaaa 240  
ttaacacatg acttttttaa gtaagaacaa gggaagacac caaatctaca acttggagtt 300  
gagagctcag ggaattgttt tttcttttaa taggtgcttt cttgggtatg acatggcctg 360  
ataaaagctc tagactttgc agactgcagc agcataaagc agtttccaat gcaatggatg 420  
aanatngatc tgaaggtana aaaggtgten tggctttccc ttttatatta aacaattttc 480  
ttcntttcca aatatctctg ctgccaataa aaancctggc cccnaccccc ccantattc 540  
caaataatac cattccactt ttaaccccn ctcgggccat tccccttaa aaaaccccn 600  
naaa 604

<210> 9931

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9931

atgaataaga aagcttttta ttttacaggt ctttgtggga agaaacagaa agaaatcaca	60
aaagcaatta agagagctca aataatgggt nagaaagaat acctcaacaa ctgaattgag	120
ctagctgaaa ttttgctcat tatgttttgt caagaacttt aattatctct ttacagggtt	180
tatgccagtt acatacaang atcctgcata tctcaaggac cctaaagttt gtnacatcag	240
atatcgggaa taaattctat cacgttacca ctaataaact tattttacag taagtgggtg	300
tatgatgcca atactgactc aaaccaacct ttggatanaa aagtgtttga ggaatgaggt	360
aaanaatgac acttccccct cataccaatg tccattaagc agattgctta tttaaaatgt	420
taacactcnt cncattttat ctatgttgaa taaaaatggn tcngtgnan tgtcctttan	480
atctgatccc ccaatagctc ctaccataat cccttccat	519

<210> 9932

<211> 486

<212> DNA

<213> Homo sapiens

<400> 9932

gatttaagga atttctttat tggaattcca ctttacctcg ccacaaggga gctggctttc	60
atgacaaaga gagantgagc cctgaacaaa gtattcgta acattttaca acagacaaca	120
tatacatgtc ctgcatgaca tctttacaat aacacattcc aaaaacaatc aaacatttaa	180
caggattatt aagaacatt aatttccttc tctctagatg actggtactt tagcttttta	240
gcttctgcaa taaaatgcgt tccttctcag catttctatt cataggaatc cctgaatcac	300
ttctgtcatg taagggtcga attcatgttg acgggtgtgt ccattantta ctgaatgtgt	360
caaaatcctc tccacggtag aaccttttat tgtagcataa tgtgtgaata cacttccagg	420
ttatccctcc tccnaattc ctenttntt atgggaattc ntctgaaacn ttnaaaaagt	480
tentcc	486

<210> 9933

<211> 502



<212> DNA

<213> Homo sapiens

<400> 9933

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gacgtaataa tctatTTTTtA ttcattTTTaa atcaaagaga ccattccatt tcctaacaaa   60
caggtnagtt acaaaagtag tccattTTTtac ttttcatcag tctttccctg ttttgaacaa  120
gtttttttga gaattccttag ttttagTTTT tgttttagctt acacactgaa aattttgaga  180
agcatctaaa aaaatccaca attagtGcaa aaaganggga caatacttta agtcattcct  240
tctataaaaa gaattaaggt tactaaatgc caattTTTtaa gcaaatatat agtttcctat  300
ttgccttctg aaagacagca gatataaaaa tagttcaata ttangTTTtaa caagggtttg  360
aacaacacat gttactatca gctttatTTT acctgcaaaa atatttttagc tacacttgga  420
aaaaaataaa cttganaata taacttcccn tttcttangg cngaagccag aatacctatt  480
cntttccttt taaattgnaa aa                                              502

```

<210> 9934

<211> 333

<212> DNA

<213> Homo sapiens

<400> 9934

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gtacactttg ggatttatta agattctaga atttaaaaac aggaaaangt gccattagta   60
aaaactccat cactaacatt ttggtaccac tcgtanagcg tcacataaat attcagacca  120
tgataactca ntgcaggaat gttatcaaat atttccatgc aatctggaac tangaccaca  180
gctggcaatt gggggctctga aagcccgaca tcccttacgc tgcttcctac atcttgacaa  240
caggaagcca agtgatacta ngtnntgcac tacaacagtg aacataaccc ccctctgttt  300
ttttgccnng tttttttaac naccaaccna aac                                333

```

<210> 9935

<211> 585

<212> DNA

<213> Homo sapiens

<400> 9935

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ctagttcctg taacaaatgt attaaatatt cattctgaga attaatagata ctggcactag 60
atgggtgctat cccatcaggt aagtcaattc ctttaaaaac aacattcgat ccttctgatt 120
gtcgtaaaag actagtttct ttttcaagat ggtctatctt taaattagct ttgccaact 180
gctgtgaata atttatagcc tctttccgag attccctgag cccctgtctt aattcttcat 240
ttcttccggt aagctgatca acttgggctt tcaaatacan actcgcatca aanattcctt 300
ctgcattctt tgattctata gcattaacta ntctttcgag gctagggata attananatg 360
tttctcctcc ttttaacatca ggatctttct gcatttccctt aattgcttgc aatatttctt 420
tcataccttc ttcaagttgc ttattttctt cnactaatte ttttaattta ttctgaaatt 480
tgggtatcac tgtcctactc ctttctaaat ctctttcttt ttcaattaat tctcttgaaa 540
naaatcncnc cttgaaaggt gcnnccccc ntttttgaag ggcca 585
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<210> 9936

<211> 389

<212> DNA

<213> Homo sapiens

<400> 9936

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cagtagacaa gcaactttta gtttttaciaa gttatagaaa acgcaaattt tcatagcatc 60
aattttagaa aagaaagatt aaggttccca tctgcggtgc tttttccaat ccgcccacat 120
cccgtccttc tgaagaagca cgcacactcc agatgtctcc ttcatlgatc acatttctct 180
ctggctgtct ctatttctaa gtcagagtta ctcttgctgc tgctgctgct gctgctgctg 240
ctgctgctgc tgctacngtg gtggcggcgg cggtgggtggc ggtggctgcc caagcctcat 300
ggttgtcagc tccatgcctc ctgaacttca ctccactgaa atctggttgg gtntgaaana 360
naccngtgg aatgaangac aanaaaanc 389
```

<210> 9937

<211> 514

<212> DNA

<213> Homo sapiens

<400> 9937

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gattgtttgg aatttattct cttaaataan aatgtaacat ttgttaaaaa aaaaattaaa 60
agcacgacaa cttggtttca cagtaaacgg caaaaacaaa gttacacaat taaataaaaa 120
ctcaciaaaga aacacaccaa gaactcacia gagcacaagt taaaaacaaa ggcaaaaatg 180
gaagtggaga naangcgggc agtaaacagg cagcagtggc gtgttccttg gcacagctaa 240
tcctctcctg ttgggctctc gtaccgccgc cgggaanccg gctggctgtc cgccccctcc 300
gcaggcaccc caagctgaat ggctccggaa aaaaattgaa accccttggg tgcctgtctc 360
ngaaccttaa aanggctatg gtggaaactc cttttgggga cancctaaga aatgttccat 420
tttcttgccn aaaaanaact gaaagatgcc ctanccnccc naaaaataag aattgggctc 480
aaacggctaa ctcenttga accnaacagg aaac 514
```

<210> 9938

<211> 466

<212> DNA

<213> Homo sapiens

<400> 9938

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ctgaattgaa tgctgcattt attatagtgt ttttattaac aaactttcac cagaaagttc 60
cgagtgtgtt aatacancag gcacattggc ttccatgttt ggcatattgac agtccacaga 120
attgcacttc actctcacia ttctgccaca actttgtgaa ttatttgggc aagacctaca 180
accagcctcc cccattaaat gattaaatag gacttttggg tcattctgat tgaaatgttc 240
tgagttcaca cttgcatccg tctgtgacaa gctcanctcc actttccctc ctgccttggt 300
ttcantccct ccaactgcctc canattgggc acgtctctat ttttacagaa gtnccttttt 360
tttattctcc ggggtcgcan acactttttg aattacgaat ccaatngctn ctgccaaaca 420
```

aaatnacaan aggctctgcc acctttggga aaangcncctc ctatgc

466

<210> 9939

<211> 482

<212> DNA

<213> Homo sapiens

<400> 9939

atcacttaac atttaataat tgcaaatata tttattacaa tttacagatt aattatgtta 60  
 tatacacaaa tataatttta actataaaat cccaactagt tacatttaaa ttattgatct 120  
 gtagaagcca atttagagtc ttctagtccc ctaactttac cttccttaaa ttatacaaaa 180  
 ataaaatctg atagttttga tttcaagtta aagatgaaga agtgttacat ttcatactc 240  
 agaaatggaa cttttacctg tctgtacaaa gccttttaca tgctacattg acacttaaag 300  
 caccattaac aagactttta atgttataaa atgtttaatt aaaacctccc aagaatttct 360  
 ctttaagatt acgggggggtt tgaacttngt tctaactaga aatngggatg aaaacaaaaa 420  
 tttggctttt tntcctnca gtccaacttt aaaatagtcc ttncgtcnt nctaatecct 480  
 cc 482

<210> 9940

<211> 430

<212> DNA

<213> Homo sapiens

<400> 9940

atggtattaa atataagtct tagcaccttt ggcatttttg tccaaacaga cttcgacata 60  
 tgaagtgggg acataaccct cttcatcttc atttctccga atgcgggtcc agccatcgcc 120  
 tttgtcttcc tctatgacat acaatgtttc tccttcaact acggaaatcg ttccttcatt 180  
 ctgaccttca aatgtgtana gagctttgca cgtccctatg gcaggaggagg gctcctcatt 240  
 atcaaactcg tcgtcaaaat ccgtggccag caccttcatt tcactctcct gantctgctc 300

ctctgtgtta cttgccatct ggggctctca cgggtccttg gggggcaatt gttgaatnnt 360  
 gggntgggn ctgggctgtt cttaaaatcc cgcctctgcc ggggcgcccn gctctttgcn 420  
 ttttggganc 430

<210> 9941

<211> 441

<212> DNA

<213> Homo sapiens

<400> 9941

ctgtttcagt cgttcagcct ccatggactt ttgcttctgg agttgttgct tattgtgtat 60  
 ttctcttagt tccttcagct gattattgaa aatatcaatc tcctgtagtt ttgatctant 120  
 ttctttctcc acttcatcca ntgggtctcg taggtgctgc cganctagtt cttttgcttc 180  
 taaggctctt ttaagtgtaa caagtgaatc tctgtgcaaa ctgttctgct gaacttggtt 240  
 taattgggtca ttgagtatct gtttttctgg aanaaatctt ccnancattt gctgaaaaac 300  
 cngtaattgt tgctgtaaat ggggtgattc ggcaattctc aactctctaa aatttggttg 360  
 tgctctcaat ttcttgccnc ngggtgggtca atcaacatct gaatatcttg aaaattnccc 420  
 nnccagttgn aaancctttt a 441

<210> 9942

<211> 395

<212> DNA

<213> Homo sapiens

<400> 9942

cacattctag cactttattg gaacttggtt gtgtacatca atgagatcac atcaaantaa 60  
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 aaatcccaan atgctcctga ttttggtatc gaanancctg agtggtccag aaatatctct 180  
 acntaaatat aaatcatcac atcnaaata accatcattg ttttagtagg tcccaanagt 240

cctgggaaca cctcttaaaa tataattgcc ntaggctggc tgcataactg gtgggaagga 300  
 attaaagggg tacacatgna cctaattaca gcanganctg ggcagangga canacacaan 360  
 gggatggggg gcanaaatcc taaactgggc aggga 395

<210> 9943

<211> 292

<212> DNA

<213> Homo sapiens

<400> 9943

gtcattttat tcttttaata agaaactttt gcttacaaaa acaangtgta aaaagattta 60  
 caaaaatcat aaaaacatga tttatatttc acacttgaga gacaaaaaca agccccnnaa 120  
 catggatttt aatggagggtg gtttgcttca ttttaaaagg gaaaaaaaaa aaaggaagct 180  
 gtaaccatac attgatgtta acatagcatg aantttattc ttgaanaatt tacnttggtg 240  
 agcgatatta ggggaanaan ccatttggtg ttgcatanca ttttantgcc ca 292

<210> 9944

<211> 535

<212> DNA

<213> Homo sapiens

<400> 9944

gagacggagt ctgctctgt cgcccaggct ggagtgcagt ggcgggatct cggctcactg 60  
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 tacaggcgcc cgccactacg cccggctaatt ttttgtatt tttagtaaaa atgangtttc 180  
 accatgttgg ccangatggt ctcaaacttc tgatctcaag tgatccacce gcctcggcct 240  
 cccaaagtgc tgcgattaca ggcatgagcc accacgcctg gtcaattttc tttaactcca 300  
 tttttatcca actaatcttc aaaacacttt aanatntag ttataccaac ccnaagtta 360  
 catctatatt tgtgttntgc aaatcctcaa aaaaaatgcc atccatgcca aaaaatgaaa 420

aacatttttc cccattttaac cttcnaaaac ctttttaaaa aaacaaccct atatttcccc 480  
anttcaaatt ttacccaaaa cttcnttaaa anttntaaaa aaaaaanccc tgcng 535

<210> 9945

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9945

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atgtactcta ggtacaaaat aaacattata cacatataa atcagtcttt ccaacttttag 120  
aatgtataaa taagaatgac attttaaaat aaaatagttt agtcacagtc acacaaaact 180  
accttctaag gaaaactgtc cagtgaancc gttaaatttg tgctttcagc tatgaaaaat 240  
taaacttaaa atgcattcat tcttctttta atgaaaaata acctaccctt ggaaacagca 300  
taagcattgt tatggtagtc tancctcnaa atgaaaatgt ggactgagtt acagtttact 360  
ggttggtanc ccacctaaaa acccttgaaa aattaccann cgatcaaagt atttacataa 420  
tttcaaccct ttttcttang anaaaaggta acacanttcc ttaacctctt ttaaaaggaa 480  
ctttgaaatt aaaccttatg gtcncaactt tcattcaaaa atgttgctta aatatcaaatt 540  
ttctctenca nacnccatnt tcatttcctc cgaaacctcn ctggttnc 588

<210> 9946

<211> 444

<212> DNA

<213> Homo sapiens

<400> 9946

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gccaatgaag aaataagttt gtttactcct gtagcataaa aatccatgct tccaaatttg 120  
acgaactctt ggaaagcatt ttctgtgtcc tgctagttgt ggaagcaatt tccctgcaaa 180

acgttgctga gatgcctaaa naagtggtag tttgttggca anaggtcagg tgaatatggc 240  
 anatgaggca aaacttcata gcccaattag ttcaattttc gaaacgttgg ttgtgcaacg 300  
 tgcggcccaa tttttgtent aaaaaaatt gggccctttc tggtaggcaa tgccggctgc 360  
 aggcatgca tttttnggtg cnetcattaa tttgctgaac ntacttanca aatttntggt 420  
 tncccctgaa attcaaaaac ctnt 444

<210> 9947

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9947

aggtttgta acattaacac atgctttatt caaganataa tattcaaaga gttaaatcct 60  
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 attccacttt tatatttctg aataaagctg caattgcttc tttgatagag ccatttctta 180  
 aaacttttgc taataaggct atgtgaactg tgttcanaaa ctttgacaac atgcacactc 240  
 actcctctca aagtcagtag ccaggatttt cactccaggc tgagtaccta ttaagtaact 300  
 aggacttcag actgcatggt actatatgaa ttcaatttga ctcacctcca gtatgtttat 360  
 ctaccacaac tattgtttta aataatcaga tgaatgttta tcataacttt ataactcccc 420  
 caaattatac ttcagtattt aacatggtag tttcaaaaaa taaatattca agggcccagt 480  
 tttaaatttt cctcccatgt tatccacaaa agttgaanaa tacatgtttg gancnccnact 540  
 cncaaataat gttaccttcc tttaaaatta cttgttgcca taaaaatta 589

<210> 9948

<211> 295

<212> DNA

<213> Homo sapiens

<400> 9948



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 acagtgtgaa aacctacata caagctcggc ttccagagcc tgatgctcca ggctggaccc 120  
 tcgtcggctc aggcaagctg ctctaaccag gccccactcc agctccagct cccaagatg 180  
 ggggttagaa aaacgtcnac atgcaggag ggccacaaac aggctgggct ggcatgangt 240  
 atgangtatg aaccncatgg ctgagcaana acctgggcca ggtcntanac tccca 295

<210> 9949

<211> 213

<212> DNA

<213> Homo sapiens

<400> 9949

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 gagtgccaca gacactgcag ggtgaggccg aggggtgcccc gcacggccca gcaggctcctg 120  
 cctggcagtt tctgctcaaa aggctgggac acacaggatg gggcgcgta acacagggga 180  
 ggggggggcg gatttanenc nccntnnacc ctn 213

<210> 9950

<211> 554

<212> DNA

<213> Homo sapiens

<400> 9950

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 caacttttga ataagcagtt taatatgttc tcgcttctgg tatttttcac tataatactg 120  
 ttcttgccga aaantaacag ctgctgctgt tgtttgtcct tcaagtctat taacttttgg 180  
 gtcatttcag catccanagc agcgaggtct tgctcaatcg ttgatgaacc atgatcaggg 240  
 ctgctgggtt ccgatttttt cttactgtcc tttttggcgg acttttccaa agcggctctc 300  
 ctctcaagt agtcattctg aatttcatta tacttgggtan tgtgttcttt gataangtca 360

gtggttttct tgtgggtgtct cttaccagg tctttcattt cttttagtg tttcttttga 420  
aatttcccaa acaaaatctg ttgcttaatt cctccanggc tgtgctcccc tccgttaana 480  
aacnctgaat aaaatctccg tttngggngg tgccttaca aacctgaact gggttggttt 540  
gaaaaccngc nagg 554

<210> 9951

<211> 593

<212> DNA

<213> Homo sapiens

<400> 9951

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gtatattaaa caaggtgtct gtagataaaa acacataaaa caaaaatatg tattgggttg 120  
atgacaaaaa tgtantgatc agaggcgtgg aagctaacc tgtatttctc cangancagt 180  
ggttcagtat gggctaatag tggtcacagt atcttttagag aacatactcc agcactcacc 240  
aaggccatgc ttcttgcatc acagctatgc ttcttgccacc caccaaggcc atgactcttc 300  
caggtaaacc caaataaggg agaaaggagg caataacagg agcggggang agtccctgaa 360  
atccccctct tttccagaat acctaatgag cattccaccc ccttattaaa aaaacatccg 420  
ggctgggcgc ggtggctcac acctgtaate ccaccacttt gggaagataa gcagcnaatc 480  
nggaagtccg gaaatcaaaa acaccgggt aacacggtga aancctntcc ctctaaaaat 540  
taaaattttc ccccggtttg ttgccggccc ntttncctt cncggnggt nag 593

<210> 9952

<211> 403

<212> DNA

<213> Homo sapiens

<400> 9952

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caaactctgc ttcccagggt caagtgatct tccagcctca acctcccaag tagctgggac 120  
 tttaggtgtg tgccaccaca cctggctgtt ttgtattttt agtacagatg aaatttcacc 180  
 atgttggcca ggctgggtctc aaactcctga cctcaactga cccacctgcc ttggactccc 240  
 aaagtgtgtg gattacaggc gtnagcccca agctgggctg cccttgagga actgantgtg 300  
 gctctcaggt cattcccccattcacatca tgaatgaaan anttgtcaga ngcaagtnnc 360  
 atgttaggta atggggcgac agcacactgg gancaangtc cca 403

<210> 9953

<211> 572

<212> DNA

<213> Homo sapiens

<400> 9953

acaaatttca atctatatatan antttaattt gtgcatttgg ggaaaattta tgantgcaaa 60  
 aaacacttgt tttcttanaa tgacatantg aaaggacat ttcatttgaa tgcatagtgt 120  
 acattctaaa atatcctaata ttcctttacaa agtgcttgag cagtcncata cacatacagt 180  
 aatagcaaaa tatattttaca ctctataaag cttaaaattt taaatctgac taaaatatat 240  
 atatatttta aactacaaaa aattagtgtt tctttcagct taattgtgta aatagaccct 300  
 gccttctaata ttttttagtg attgacttcn attaaaaaaa aaattctgta cactgtgtng 360  
 ttacaaaatg ctgtcagttt ttaatgctaa gancctatit tagacattac tttctttgct 420  
 atttgagaac ccaaaaagtg agcagactgt nctccaaaat ntttanggtt ttaatttaat 480  
 gttgttttac cccgttttaata ttaaacccca aaaatnagcn aaattcccn atgttccttg 540  
 gccaggaaat aactggncctt ttaaaaactt ta 572

<210> 9954

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9954

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aaaatcatct cagaaaatat actacattta ttaaaattcc taaaaccat tgcagaaaat  120
attaaaccct ctaaccaacc taacactcgc tttcagaggc acttgtgatg attttcacag  180
cttccatagt tgcaaagaac aaagaaatca tcttccaaca ggggtggaat tagataagaa  240
taatccaaaa aatatttatt tctttacaga ctacacagatt gcttgatggt taggggctct  300
tacctaggat acctaattat tcaaggtttt cctaatttag tanacttttt cattgcctac  360
aatctacaat attcancaaa gtattaaggg aaaatgaacc caagaaacct taaccacctc  420
aaatantttt atggatatac taaactgtcn agttcaatct ttatcttaan acttganaac  480
tggaatgccg gaaaacnaac tttgggtgga attctggaat taaaaaantt aaacctgggc  540
gaantaaggt gtggcacctt gttntttnt tccnaaaacc caaccctnga c           591

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<210> 9955

<211> 585

<212> DNA

<213> Homo sapiens

<400> 9955

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gagacggact ctgctctgt caccaggct ggagtgcagt ggtgccatct cggtcactg   60
caagctctgc ctcccagggt caaganattc tctgcctca gcctcccag tagctggaac  120
tacaggcacc cgccaccacg cccggctaatt ttttgtatt ttaatggag acgggtttca  180
ccgtgttagc caggatggtc tctatctcct gacctcgtga tctgccacc tggccttcc  240
aaagtgtgg gattacaggc gtgagccact gcgcctggcc tcaaggtatt tctttaaaaa  300
tggaatttaa tatcaaaaag taagcttttc agaaaacaca ttcctaactt taataaagac  360
aaaagaagcc atttccaaca aaaagtaaca cttaatatc taagactccc cncaactttc  420
agattttaat ttcaaccttc ctgggnaagc tccctgcttc ttagcctttc catgtnanaa  480
tcctctgtgg atcctttccc aatacacata cattaaatta gggctngggg aagggaatt  540
ttctttanaa tcngectcct ttggtcntga tttcancaat ttaaa           585

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<210> 9956

<211> 501

<212> DNA

<213> Homo sapiens

<400> 9956

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gagaacacat tcgtatTTTT tgacccanac caaaaacttt tggtcctttt taacggtaca   60
ttcctacatt aanaaaataa ttagtgataa atatattctc tttttgtaca aattcaattc  120
cagtttttaa caccctaatt cacaaaattc atgccaatgt atgcgctgat aggctgaagc  180
caagctgtga aacttcanaa cacagttaag ggcagcaatc aagcccgttc caggctgacg  240
cgcagggcgt tcttacatca catcccgggg tgccagctca accccggcac gtcagcacct  300
gggtgaaggg agtgccgggc actgatggga tcaatacaag acacagaccc cttccgtcgg  360
gagctggcta atctctacag tgccccacac cactgatttc tatcaggctc caagggtcc  420
cattgaagaa aaaggctttg nccctctgaa tcttggggga nttttttcc nggcaaaggc  480
ccntnttttt cncaaaccnc c                                         501
    
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<210> 9957

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9957

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aatatagaga actgattatg ttcacttgta acctgtcatt ccaaaattct tcaggatgtt   60
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aatgagtggga agtataatgt ttgcaccagg tattatatta ggagccttga acccagaata  180
tgtctgatta agtcttttag cccaataatt tgccactgat gccaaagtctg gtaattttga  240
aggagaaagt tcaaccataa cggggtgata cagggcaccc ccgtactcaa aaaactttca  300
aagtgccttc taaacaagtt tctctttctc cntgaataca acgtcagtca caactgatgg  360
cagtacaatc gatccatcca tacactgctc taagaacatc ttgatgggta taatatgctg  420
    
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tcttcatgct ctacctgcta ctaatttaat ttggtcnngt tactcttccc tggganaaac 480  
naattcttct taaatccaat tccttttnna ccaaaaanaa atgatttccc ccctgggcct 540  
ccctttaacc aac 553

<210> 9958

<211> 436

<212> DNA

<213> Homo sapiens

<400> 9958

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naagtgaagg aatatttggg aggatcagaa gcttggctct gattttgcca tcaacaggaa 120  
cttgatgact tcaagggagt ccccaaacc tgggtttctg tttctcaac tctaactga 180  
ggggctanat gcacttggt tagttagtct ccatgatggt ttagttcgtc tccatgatcc 240  
tgtgaatttc agatgttgaa aatctttgga aaagccctga aagatgaaca ggtaggagtt 300  
attgtctata ttttaccat gaggaacta aggacctggg aatctanang gctcattanc 360  
tttgaacca gtactagcaa tgaattcatc tgaattctgg tccnaactc ctagcatgan 420  
anaaatttga nctttc 436

<210> 9959

<211> 526

<212> DNA

<213> Homo sapiens

<400> 9959

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tttctcaac ttacatttaa aaatgtatca atgcaccttc ttcagtagta ccacatgaaa 120  
atataaacct cgttcttcca tatcttctac gcaggaanag tgaatgaata gtaccctaaa 180  
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ccacagcata aaacagccgg ttaaaacatg gtgaacaggg tcattgaaat gtttgtaagg 360  
gtttgctcta caaaaaaac catgcaaate ccagaaata ttgcatacac cngtacetgt 420  
ctcctgttac atcccgccata attctctatg ggantttccc cacatggggg gctctttgaa 480  
ttctccctan ccacccctaa tttcancctt ccnanngcct cccgna 526

<210> 9960

<211> 558

<212> DNA

<213> Homo sapiens

<400> 9960

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agaattaatt gtaagtacat gttactttc gtgtcaggat aaattgcac ttttaaagct 120  
aagtgatctg tgtacattgt gatagggcct ttcactttgg ttgaaatctt aggtttgaaa 180  
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tatcatccca atcagatata tctcatctga tgtcaacttc tgagtccaat aatcagacta 300  
nctccanaaa gcacaggga agtggtgtgg acctctangg actgccctct gctttgtgga 360  
aaggcttggg taattttcca ttanagattc aaccaaccac cgaccaacc tggaatttaa 420  
taacaagctt tttgttgata agtttatcnn tgaaactagc tatctgttct aagggactgn 480  
atcctccttt gaaacacccc ggcttnaaaa atccnctgaa ataaccnttg gggaaaactt 540  
gtttaaaaag gnnntttt 558

<210> 9961

<211> 583

<212> DNA

<213> Homo sapiens

<400> 9961

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 tgcgaacatg cccgctaatt tatcttaatt ttttagaant taggtcttgc tatgttgccc 180  
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 ggagtagaag tctgagctac cacgcctggc cctgaaagct attttatgga agaatttaaa 300  
 ctaaagatct ccaaataatta ttcataatta catacccatg ttggtatcta tgtttactta 360  
 tctaccattt ttataggatt tacaatatga caatataaaa taatcgtctg tttcccccaa 420  
 atagagcata agaaaaagac taaaatttgt tttatttatg gtacnaaant ttgttctccc 480  
 aaatatttta aataaaatat tgaatatgct cnttatttcc gaaaatctaa caccgggtna 540  
 tncnaaatcc aaaatttttc ctactcnntt gnaaattgaa ttt 583

<210> 9962

<211> 477

<212> DNA

<213> Homo sapiens

<400> 9962

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 tcttgaaact gtaaaatata tataaaaatg aaaagatacc gaatgtggac agctccacat 180  
 tgatcaacaa atgttaacat tctcaatctc tttcattgac tttaaaaact atgtnataga 240  
 aacagaaaat gaactaatac acaaatgaag tacaatatc ataattttca gaaggtttga 300  
 tttttcgagt accataaaaa aactgaaata taaatatattt ggaaatagtt ctaagaaata 360  
 aatatgaaaa tattttgttt ggtgtcntaa cacanaant atcnnntttc cccaaatgtt 420  
 agggatccat tattttatga attaatttgg gggnccttgt tttatccata ttgnent 477

<210> 9963

<211> 528

<212> DNA



<213> Homo sapiens

<400> 9963

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caaggtgagc ctgatcacag cctcggtagt atttattttg aaataaaaagt tcccatccct   60
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tcaactgggcc ctaaaccgca ccttctggta tcttctaagg caattctggt accgcactgt  180
gtctgggttg gcctatttta atgtctganc cagctgttcc agnatttcaa tgantttctc  240
ctcttcggcc ggtgaggaag accctgttnc gaaaggcaag tntgtaaaaa ctggcttccg  300
atctaaaagt gananggaac gcaaaaangt gtgagctgct gcancgtggc tgggtccatg  360
tccctgtgct gctcangcct tgaacgaccc tgctggantg gcagcaccct acagctgtta  420
aaccatcc ctgctgtcaa aagtcenca nggatcaggc ancatggatt gatatnttaa  480
ntgcatttgg gaactgggaa gctgcacca ggntngacag gaaaacac                    528

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<210> 9964

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9964

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aagaaattag acttttatca atacacaaat aattttactt aaaatcaacc cagttacata   60
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gaaacctgca gtccatcccc ggagcatcag ttaagtgatg gtccaggtac tcaactgacac  180
gtttctcttg aacttgagat ggtcgcaaac aaaacaccgt tcttgccctgg atgaagcaag  240
agttcacata aaagagcttt ataaaatgtc tatgaaggag aattgataat atcagaagag  300
ctccagcact tcaattgaat ataactctct attattcttt tcttgattta atttctgtag  360
ctcccgaaaa ctacttcaa tcttggtgag ctccagaataa acagatatct gagattttac  420
aagcttgta agatttatca gtagcctctt tgcttccgn atcattacac aacagttaaa  480
ttcgctccag aagttgactt tcccatccat aatctggtcc agggaggggg tgtttccng  540
aaaatcttnt tcntttcgca cctccnggtc ggaaatcaat c                    581

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<210> 9965

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9965

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tcaaaataca atggttttgt actgttatatt taaaatacct taaaatctta tttcaatttc 120
gaatatgaca aatattaaca gctataaccc atataacaga agttctctgg atctttaata 180
attttcaana atgtnaagggt gtactgtttg aaaacttcag gtgaggaggc agaactctgca 240
agacttgctg actaactaga caaganaana aaggctggag gangaactca ngatggctct 300
tggatggtac ttgaaatang caatacagga aatgaaaaca gtttangttg aagggattgg 360
aaaaagaagg gntaaaaaaa tttggtttta tttgaagtgg tgagtcctac atgaaattta 420
tgaaaaatct ggaattccaa aaattggtct attctaaaaa tacnaaatgg catnttttgt 480
ttcntttnaa ctgggggaaa agattacctn aaacccctat tttgaacccc cctttgtttt 540
ataaaaaagt ctncacaaa atttattaat tcntccttta nggcccaat 589
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<210> 9966

<211> 571

<212> DNA

<213> Homo sapiens

<400> 9966

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acattctcta aatgagttac aaatcagttt ctgggaaagg aatgctccat gaaaagctta 180
tagcaagata actcaggctt tcagggtggcg tatggcacgt gaattancct tacagtaatt 240
gtgtacatag tatgttttagt cattattgaa tcaaaagttt caggaagtac cttttttaat 300
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gcatacgctg agagaaccgt caatatgcct ttgttcctgc tgagggatct gccattctgg 360  
 aggtacaaat actgcagata gaatatcacc gcaggactac gtcnagttca gantgttcag 420  
 gatcatttct atataaaact acnattagct gaactatggc caangtcctt gaacataaan 480  
 ccttcttctt ttcatgtcat ctttaataagt taaaagccnc taccgnnaat gccgcctatc 540  
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<210> 9967

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9967

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 ggcatgtcct gttatcccag tggaaanata taaantanct atgataatga atgtgggctt 180  
 tgaattttta aaaactttca antcttggct atntcactag ccaacaattc tgtttcctca 240  
 actgcaaant aagaataata ataatgatcc tacaagggtg ataaaaggat caaatggaaa 300  
 aaacagtnn ttgtggataa aggtacaaat aaaattatan atantctctt cnttccaaaa 360  
 aggggggaaa gtatttcctt tcaaacttgc caagggggan gaatgtaaat gctanctcat 420  
 tcttcctant aacaaatnaa gtaatggttt caaagggtact gctcagtcca aaacccaaat 480  
 tccccattag gatccccctt aancctaaat cccctantc ctttttttaa aaaaaaatta 540  
 ttaaacttna acccccactt tccaactga atcttaactn taaaaaaa 588

<210> 9968

<211> 267

<212> DNA

<213> Homo sapiens

<400> 9968

ggaagggacc actgccttta ttgcctctgt gctgggggtcc cancctgggg ttcaaaagcc 60  
 tctgggggca ataggtgacc ctggacccaa attattgcta cttggctagg tcaccttggg 120  
 gcttcccata ctgccctgaa aatgggtggg atganggcat gcaaacaata tgcaaatgac 180  
 atgcaaacca acccanangc ctctggcaca tccatgggtg ctggaaaaat caaaacctan 240  
 tggcctnnga aggcnacngg gcaccca 267

<210> 9969

<211> 449

<212> DNA

<213> Homo sapiens

<400> 9969

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 atgctatccc tctcccctcc cccacccca caacagtccc canagtgtga tgttcccctt 180  
 cctgtgtcca tgtgttctca ttgttaaagt gctaaacatg gtggctgact gcttctgagc 240  
 tggaagtga ctgagttgaa agttattggg agacagatac actattgtat aaagtggaaa 300  
 ctgaggaatt attcatgctt ccatggtnca ntattctcat gttcccttcc tccaccttcc 360  
 acaagcttaa ananaaacat gccttgaaaa gggnaaggg tgggtcttta tcaaaaancc 420  
 nccccaccaa acnctaaggc naccatttt 449

<210> 9970

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9970

ggtagtcaac ttgtaccaag tttagcagca agangatact tccttagaga ctttcagtgg 60  
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gcaatctgct tggtcacatt tttcttaatt ggctggtaat cactctcttg actcttggtt 180  
gctatgaatt ctttcatcgc aaaattatit tgctcaaggt gttgccactt tctctccaaa 240  
tttgtaagct gagaatgtgt ctcattttct tgcaatttg tttttagtgc ctcatactct 300  
atgttttgct tctccattat tttcttaaag gcatttctgt gggttgataa tatcattctc 360  
tcctgatgta atttctttat cttttcttca cctgatgatt ttaaagctgg caaatcatta 420  
tatatctcca gatcagttgt catttgctta attttgcttt ttaaaaaaag ctgttcctcc 480  
ancntcctaa tttcnaaaaa ccccatttct gcaaatcaac tgcaaanttt naattctaaa 540  
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<210> 9971

<211> 596

<212> DNA

<213> Homo sapiens

<400> 9971

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aggtaaaggc acattgaaag agaatgcttt ttaaatacaa ttttcaggga attcacttta 120  
catgtaaata aagcagaaaa tgcaggaaaa ttattttgaa gtttttcac acttaacaat 180  
ttctgggaaa caaagttcat cctattttcc catagaggac ccctgttaaa atataagatt 240  
atattccct atactaggat tcagcattca aataaatcac tagtccaact tcaatgtcgt 300  
agaacccaaa aaaaatataa ctatcctaaa aatatataat ttaaaatata atttatagtt 360  
atactaaatg ggaataaaca tatggcacac attaattaca aaggatactt catgttacta 420  
gaaagtgcc tgtaagaaaa ttaataaatg acctaaaact aaagcattta ggataacaaa 480  
catcctttta cttgctatct tttaaaatgc tgcctaggga aatccaatgg cccttaaaaa 540  
aaattgttcc aatattccac ttttttgaa acttttnccn gaaataattg aaggcn 596

<210> 9972

<211> 424

<212> DNA

<213> Homo sapiens

<400> 9972

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gtatgtaaca gaacacattt cagattgtat ttaatttaaa tatttgtata taagagcaaa 60
tgtctgaatg tggcctgaat caagtttaaa tattgttggc tcatactgat tatgggtgcct 120
aagagagcta tatatataca catgtaaagt ccattgtttt tattgtcctg agttgtctta 180
aacctgcaaa atatacacta cccatttttt ttttccattg gtttcagact tggttcaatt 240
aanattgggtt ggggattttt ctcttttctt tattaacat gttctggtat canaatgggtg 300
ttccttctcc atcagaggct gggaaacgta ttataattag ttttctccc ccataccttc 360
ccccaagaac aatgaaaaat aantnaangg tggaacnttc ctcenttaaa attnttgcnt 420
aacc 424

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<210> 9973

<211> 550

<212> DNA

<213> Homo sapiens

<400> 9973

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gaccttctca atgactaaaa cattgggagg ggggaaaaaa gaccaagtgt tacacaaaan 60
aattttagtg aaattattgt ttttattgct tttaatccct tgacgccggg agttgggatt 120
tcccggcaca cttccattgc cggcaatgan acgcaccgtg accgccagcg ccaagggggtt 180
aacatatact tgtaaaacca tataactctt aatttgtacc cgtgtcttta ctcttattga 240
tatataaaat tatatataca tatgaacat atagctacat aaaacttagc aacaataaaa 300
ataacacaca ttaatacaat tcaaagaaaa attaaccctt tatgctggat aaatctcatt 360
tctgtttttt tattgtcttt tatgttaaac tttctacaaa aggatgtata aacgggtaag 420
tanaaaatct ctatctacaa aatgttttct cttttaagta ttacattact tgggtgttnt 480
ttaatanact gacattttta nccenttaaa atcentttac nttatacccc gcnaaatact 540
ttaaaccccc 550

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<210> 9974

<211> 201

<212> DNA

<213> Homo sapiens

<400> 9974

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cacacagcag gagcagcagg atgctccaga tgtctttatt ggggctcgag cacagcatga 60
cagttggagg catgcagaca gggcacaggg cccagcctgg gcatgcccca gacacacacg 120
aggggacagc tttagaaaag gactgaccaa caccagggag gagcagggag ggagggccca 180
gggagggggca nccnnnnctn n 201
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<210> 9975

<211> 460

<212> DNA

<213> Homo sapiens

<400> 9975

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gtaaataaac aatttttattg ttcattctca catatgtgaa agacatcact acagcatcca 60
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cttaacttct aaacaaggaa aaattaacat tgttttttaa acttactgag ttattatgca 180
tctaatagcaa gttttatcca aaagtaaata taacatgaca tatccctaata acaattaaat 240
aatctataat taataagctg agaattgggg ttcaagacca cagtttgaat ttttaaaaaa 300
tataaataag tccattagca cagtaagttt tgactacagg cctgttatca atctatgtca 360
tgaagtgaca ttactttaac ncattaggaa acanaggtta ntaacaatca atacctcncc 420
tttangtcta ttgctgatac caattganat gtnttttaaaa 460
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<210> 9976

<211> 308

<212> DNA

<213> Homo sapiens

<400> 9976

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tcagttgggt ggactgatga ggnaaaaaat aaattccttt taaaaaaca aactggagcc 120  
tatttacaaa acatgcaaag ggagaatttt aagcaggtgt tactgcagaa ctgctcagac 180  
gtgaatacag ctgagtgaca gaatatacct ttacttctac aaatataggt cctncccca 240  
gactttctgg aagaaatacn ttttcagggt gtggactata aaatggcnta cantgctaan 300  
accnanac 308

<210> 9977

<211> 600

<212> DNA

<213> Homo sapiens

<400> 9977

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ctacacttgt gctatcttca tttattaatt ttgtaataaa caattctgtt agttcatcca 180  
tttcatcttt ttcatttttt tcaacttcct tttgtgaaac tgtagctgtt gttcttgaat 240  
tatcattgct ctctgataca cacgtgtcag aatctttcac atcattctta gcaccttctt 300  
gctcagaacg tttcctttac ttgtgagttg caacaccgtt tgaatacaat aagaagattt 360  
cgggtgttg atgtaaagc cttanataat ttatggcact tataatgtct aattatattg 420  
ctttcacttg taacaactga agtacatccc tttatcatac atggaatact ggggttacca 480  
aatctggctg gtacactcaa anaggggatt cattcctanc ctttaataaaa aaaacttgcc 540  
tncccccntt ncaaaaaata tgggttattt nctccaatct gcaaaacctn ggttcctggt 600

<210> 9978

<211> 598



<212> DNA

<213> Homo sapiens

<400> 9978

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gagacaaagt ttcactcttg ttacttagac tggagtgcag tgactcgatc tcggnctact   60
gcaacctctg cctccccagt tcaagtgatt ctggtctcag cctcccgagt agctgggact  120
acagggtgcat gccaccatgc ccagctaatt tttgtatfff tagtaganat gggatttcac  180
catgttggcc aggatgggtc caatctcttg acctcatgat gcacccacct cggcctccca  240
aagtgctggg gttacagggt tgagccacca cgcccggcct actatttctt tctgtatggt  300
cttgtgggcc tgttgttttag ctcccactta taagtgagaa catgtantat ttgtggggaa  360
aagananac ggattgttac tgtgtctgtg tngaaagaag tanacatagg agtctccatt  420
ttgttctgta ctaagaaaaa ttctctgcc ttgaaatgct gttaatctat gaacttaccc  480
caaccccggt ctctctgaaa acatgtncgt tgtcactcca gggtttaatt ggattaaggg  540
ctatncaaaa tttcttttgt tnacnnaatc ctgaattcnc atgcncttta aaaatctc   598

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<210> 9979

<211> 526

<212> DNA

<213> Homo sapiens

<400> 9979

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ggcaggccaa tgcaagtttc tttactgaaa ggtgggtccg tttcaaaagg acagtttggg   60
cacagaatag acaaacatta nagtttgana gttttccctt gagttttgca aaacaaaaca  120
tctagtaact tcagtattca ccaggaaaaa ttccccagtg cctctccctc cagccctttc  180
tcctgcctgc cttcaggatc accccttgct tcataggttt tcatttttca gttctccttc  240
ttggatanan tctatcctgc ccgcagggtga nccctctctt cccatgccaa atttccatct  300
aacccttggg ctgaaacagg tgcaggcttc anccaantgg aaaactgctg ggggtgggtgc  360
tgcctancct ttgacgggtg ggtaaggaaa aaacgggtta aanttagggt natgggctcc  420
attctgttgg ccaagggtta acctggcttc tctcattcaa tttncncat tggcaaaaaa  480

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tgtaaccctg ccattnccttt atnaaaaatn tataaanttg gccnc

526

<210> 9980

<211> 515

<212> DNA

<213> Homo sapiens

<400> 9980

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aattcaccaa atcttattga ggggtggggt aagaagaaaa cctgaaggca ggcaatgcat 120  
taaaagcatc aataaagatt tctggtgcta ataaagtica ctgacaataa gaactttact 180  
ttcttcacc taaagaagtt tccttaagta ctaactttta aaagtccatt ctgtcatgat 240  
atgancctgt tcaactgaacc gtgaggaaca aggatgaaaa ataagaatag aaagagtatg 300  
gttcagcctg agtctaagtg gtctggtgtt ttatgatgac tctaccaa atgtttaattta 360  
aagtctta attttatttt taattataat gttgccaact gtctgactga ccttgaanga 420  
tcagggattt ttccacgact ctaactgaac acnagatcct tctcaaacgg gganaatgaa 480  
atgacnccgt gttctatctg cnccatttnt ncaact 515

<210> 9981

<211> 488

<212> DNA

<213> Homo sapiens

<400> 9981

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aaaactccca cctcctgggc tcagggtgatt ctctgcctc agcctcccaa agtagctggg 120  
gattacaggc aggtgccacc atgcctggct aatttttggt ttagtanana tgggggtttca 180  
ccatgttggc cagggtgggc tcaaactcca gtgatccacc cacctcagcc tcccaaagtg 240  
ctgagattac aggcatganc caccacgcct ggccccaac tgactcttga ccaaagaatc 300

tgatttggca aaccaaactct tagtgcagtg ttcgtcctc gtccccttac ccagaacatg 360  
 attcagatcc taacataaac acaaaaacag gtcnnggaac caaaacactg tggctctgtc 420  
 tattatacaa aatattgana taatgttcac aantcttct gtttccanc aattgtgacn 480  
 attttgaa 488

<210> 9982

<211> 547

<212> DNA

<213> Homo sapiens

<400> 9982

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 aaagcaagga nttctattag tatgtcttct tcatttatat cccagattaa tataaaccca 120  
 gtctagangt atcacttctt tccaaactta acttcatttc agcagcatac atggaatatt 180  
 gacacttttc aaagttttta tcccagaccc attagatcta caagatacta naaagaatta 240  
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 taatcatggt gtggaatttc tccataccan cagcatggct aacgtttgtt nttttaaggt 480  
 tatgttctga nactccaggt taantttgnc ctgacccttn aaccttaanc ccaaattgaa 540  
 aagaaaa 547

<210> 9983

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9983

aagctaata gctatcatta gtgttagtgt actttatgcg tggcctgaga caattcttat 60

tcttccagta tggcccaggg gaagccaaaa gattggacat ccctgattta tgcagtctcc 120  
 anaggaaaaa ttcctgactc acctaaatca cactgaagaa tatatcaata caatgggtctt 180  
 attaccttaa aattaacctg ttaaattttc tttccatggt ctctaacctt tcctagtcaa 240  
 actggaaaat atccaataaa attagtgtag agaaaccata ctcaattcta taacgaataa 300  
 tctctcatct tctcacgaat ttcctggaag taatgagtgt ggactgaaga agcagacata 360  
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 actgcctttc agantctaaa acagancgat gtgcatcata aganatagcc tatcagattc 480  
 ctagggccca aatgttccaa aggtcnnttt cctaaaggca tgtntatttt naacnaatat 540  
 aatttgggtt ctaatctgac cccatttaa tgatcactng ggaggaant 589

<210> 9984

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9984

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 ttaaggatct ctacgtaaat ttattttggt atcaaacaac tgcaattagt gatgggggga 120  
 taaaagcatc cctaattgtg gaaggatggt aatttattta caaaaactat acaaaattag 180  
 attaattata acaacaactt atcaaagggt cctgaaatta attttgcttt tgaaaaagta 240  
 tcaaaagtct tcaaatccan aatgatagca ttttattatt tctgattcat ggaattatag 300  
 cacatcanat cttaagcaa ctacatcana taaaatccta nataataaaa tattcttcat 360  
 ttcctgacag cttggaatgt aaatgaaaac ttgttccatt tttattaaan aaaaaaccta 420  
 naataatgca tccnatggta tcaaatacct gttaaaatgg cgtgtctgct ataattaaac 480  
 atgggcnatt aattctacat aattaaat ggcctaaatt aatccccct taanaaaaaa 540  
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<210> 9985

<211> 529

<212> DNA

<213> Homo sapiens

<400> 9985

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gagcattcac caacaatttc tttatttaaat aagtgtatct tatatagaca atctttttaa 60
aaataaaatg ccttatttgt gttgcataca tttattccga gggagcctcc ctacaagtca 120
agagtattct cttagccaga aatacttcta ttgctagaaa cattttttaga acagaacaga 180
tttttcctgt tatcatggct gcatcaaatg ttaccctgca ttttaactaa aatggccaaa 240
cattttcaaa gtcatcatgc actacaagaa tctaaggcag tgtgtctaaa atgccaaacc 300
cagtacattt agttaaatat ctggtcaatt caaaaagcaa aataaattga ttcaattggt 360
taatcagtta aaccatctgg ccaacataga gtgaatcctc aaaagggcaa catgtcctaa 420
taaaaacgtg tgacangatn gtccaancac accccanggc cacacagaaa aaangccatt 480
ttatcttcct gaagangtct ggttanaatc cgttttggca aaaattttc 529
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<210> 9986

<211> 479

<212> DNA

<213> Homo sapiens

<400> 9986

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ctgagatgga gtgccactct tgttgcccag gctggagtgc aatggcgaga tctcagctca 60
cttcaacctc tgcctcccgg gtccaagcaa ttctcctgcc tcagcctccc gagtagctgg 120
gattacaggc atgcaccact acgcatggct aattttgtat ttttagtaga nacaggattt 180
caccatgttg gtcaggctgg tctcgaactc ccaacctcat gtaattcacc cgtctcagcc 240
tcccaaagtg ctgggattac aggtgtgagc caccgcaccc agccagaatt atcttatgtc 300
tggtanaaat tgaggacttg ttgaaggctt tgccatattc ttcacactca tagggttcct 360
cttcagtatg aatgttctta tgtttantaa naattcanga cggttnnaag ctttgccaca 420
atcttcncat ttgtaggttc tctcncctat gaattacttt gtccataaa ggttgaaga 479
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<210> 9987

<211> 601

<212> DNA

<213> Homo sapiens

<400> 9987

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aagagttttt tcctctttta ttaagtccgc tatactaact agaaagagaa tctgtggttt 60
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nagatcacca tcaggtgccg cticcttcct gtggctttcc atcttcagc cagcctggtc 180
ttttgccttg aagggcccaa aacaacagcc ctgggctatc atcttcatcc caaaagcgga 240
aaaaataggc angcaaaaac accgaagggt gtctcaaaaa angttcccat caggttcnca 300
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tgcaccatca ctctttcttc naagccagca ctgggaatgg cttcactttt ggtggaagaa 480
ttcatcncnc ggtcccatac ctgggtgagg gcccgatttt taacaggtn ttcncttaaa 540
aaaggttaac ttncatcca atttcccccc ttanccctg ttacctctc cttttgttt 600
g 601

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<210> 9988

<211> 446

<212> DNA

<213> Homo sapiens

<400> 9988

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ctaaccacac cttaagttt tattggccat cctcttgata agctgaaaag tcacactagc 60
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tttttacaaa aatatcctgg caggatctga aactgtttct ccaaattgtc aaaatatatc 180
tgtcacacaa aatgaccccc aaagagaatc ctgggaagaa aacaatttct cctcctccat 240
catccaatta agtatttatt aaacagtcnc tatacttaaa atacctttcc agggtaccac 300

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ctactaagtt aacagactac tggttcaaac accgcaaaga aaagcctgaa actagataga 360  
 aacaagaaaa acctccnttt tttttngtgn accttttngt ttgtttttac ntgagaaaaa 420  
 gaaaacanaa ctgaggnaaa aaaaat 446

<210> 9989

<211> 559

<212> DNA

<213> Homo sapiens

<400> 9989

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 acggcacatt tccaacaatt tcttaataat tcctcttttc ttaaccacag aaataaatca 180  
 gagcctttta aagttacctt acagatacca gcttctcaga aattattttg cagttatgtg 240  
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 agtccactga aggaatttta cagatttttc cagaaacact taagacatct ataattaggt 360  
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 actttaactc ttaccacactt ttataagcca ttattcccat taatggntga caatctatat 480  
 ttccccattt ccatgcccaa atgaactgnn ctcnttcct ttgaagaagn aaaccnnaat 540  
 gactccggaa agggtttgn 559

<210> 9990

<211> 533

<212> DNA

<213> Homo sapiens

<400> 9990

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caaatccttg ttttaaccca tatactccat aaaataaccc tgccaagggtg ggactgtcct 180  
 ggccccctgt ctctaggtga gganactgag gcaganaggc taagggacct gctgcaggtc 240  
 acgcagggtgc tgagcggcag tgcctcggta ttagctccat gaccaagct gttgacntct 300  
 gcccggtg aantcaccac ttccccaggg ctccctccgc ccagtcggan ctgttctccg 360  
 ctcacctcag aatggacggc aaacgtccan ctgttctggg tcttcctctc ctgggccttg 420  
 ttacatcaag ggctggttgc angtnacacc cactccatcc anggtttctn caccacnang 480  
 gaacccccctg cttgctgccc tggttctccg gccacaaccc tcctngtttt ggg 533

<210> 9991

<211> 495

<212> DNA

<213> Homo sapiens

<400> 9991

cctgccgcat ganattatit tattaaaaa ctcaaaggaa gcanagtgtg gagcggatc 60  
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 agtgcaaggc ccaggccatg agctggggan gaagcctgac agcttggacc cnancacaga 180  
 nggacgtgca ggggtggctca tactcatact ggaaggcaga accatcacga tgcctctttg 240  
 ggggttccca gacagaacaa ggctcctggg ctccccctgt atctccggtc ctgggaaaaa 300  
 gcggccgatt cttgcanggc aaccctacc aactcccttg aaactccan ctaagtttct 360  
 tggggccttg tccccaaaaa acctgttttt gnattggggg acntggcttc cgggggttaa 420  
 aaactgggaa ttccccctcc tggaattggg aacttggggg nttcggttgg ctttttngn 480  
 acctnggggt tcngg 495

<210> 9992

<211> 553

<212> DNA

<213> Homo sapiens



<400> 9992

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ccactgacac ctcttgtcaa ggtctccagt gaccactatg ttactgaatg ccaaggccaa 180
gtcttggtcc tcaagggatt tgaccagtc agcatcatgt gtcaccgaag cccctctct 240
gcctcctcct caggaacact ttctgcagtt ggcttctgaa caccagtctc ctgctttccc 300
cctaccttcc tggaaaagtc tttcnaagtt tctgctgggtg ctccctcacc tctccaact 360
cctaagtctg gaatctctgg ggntcaggct ttgggcccc gctcttctct taanttactt 420
gcttggtatc tcaccacanc tcataacttn taaacacat ctttatntn tacaactctc 480
aaaaaaaaacc taaacttctt ttctgaaatc ccgaatttta ttctccnaa tttaaatggn 540
ctaattggccn cnc 553
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<210> 9993

<211> 399

<212> DNA

<213> Homo sapiens

<400> 9993

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aaaagtggct tagaacaac aatttactga gcacttacta tgcaccatc aggtatatc 60
cttttataat gtaatcttca aaatgagctg tcaactatt ggccatttt gtgaatgagg 120
aaaatgaaaa ttaagttata taatcatgag tggcagagct gggaaatgaa ctcaagtctg 180
tgactctgaa gacatgaaaa agttacacat ttcagatgaa tgcataaact atctttatgg 240
gtatgacatg aaaagtaact gtanaatgtt accttaatta catttccnaa tgcattgatgt 300
ggacagacat tanaaaagtt tggactcctt tggaanaaca aatccnncag ttaaaaaagt 360
cctttacttg cnatccccac cctngctan cccggaacc 399
```

<210> 9994

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9994

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taacagtaag cgaatcatac aaatattgag aaaaaatgtt cctatgaata catacatgtn 120
tattcttaag antagcgatc aggagtttaa caacaaatgt naagtggttt tctctaaaga 180
atgctttctg acaggctttt gggttggaat tggacaggta aatcactgtc acataacagg 240
tnagctaaga ataacttctg ttaccecaagt catttgaacc ctgtggactg tgaaagccct 300
cttggaaattt acatttaatt ccatcattgg tctggttgac ttccacattt cactaaattt 360
ggacaagatc caciaagtaa ctctcaact ctcagtcttt cacactcagg tctgtgggaa 420
agaaaggcan tgaaaccagn tntnaacaca tgccccgaaa acaattttan gatttctaca 480
gtttcctcgg tttccgcent cccaaattct acctaactgg ctattnttct naaatgctac 540
cn 542
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<210> 9995

<211> 529

<212> DNA

<213> Homo sapiens

<400> 9995

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ggctgaattt tctctccctt tattctgaaa actctacccc ctcacatccc taatccctgt 60
tctgtccctg ccacatacac acacagacgt ctgacctgca cctccaagtt cccaaanata 120
ttgtacgtan aaaaaacaaa ctttttttta ttgacattca cactcaacac tgaacactcc 180
ttgccaccaa ctgtgtgggt tttctcccac actggccaat tctccaatac caactggata 240
tcatacaatt caattctggc attaatcggc attaagtgca natccccanc aggttaanan 300
ctcagtccca taanatctcc cccaacttca gacaccagtc acaagcagta ggtnccaaag 360
ttactcacat cttctatctg acgtggctac aaancaaaag ttcccatgat ttccctctca 420
gattcacat ttgctnnaat tactcccaaa atccggaaan ggnttattta ctatccccct 480
ctattataaa ataatatact ccnaaacncc caatggaggc ccggaanaag 529
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<210> 9996

<211> 536

<212> DNA

<213> Homo sapiens

<400> 9996

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tcagggatcc ggctttttcc tggtttagtc ttggtagggt gtatgtgtcc agnaatttat  120
ccatttcttc taaattttct agtttatttg catcganttg tttatagtat tctctgatgg  180
cagtttgtat ttctgtgggg tcagtgggtga tatccccctt atcatttttt attgtgtcta  240
tttgattctt ctccctcttc ttccttatta gtctagctaa tggctctatct attcgttaat  300
ttttcaaaa aaaaaacagc tcctggaatt cattgatttt tttggangna tttttcacgt  360
ctctatcacc atcaattctn ccctgatctt aattattant tacttgtttt aattgctnctn  420
ctgatcttag ttatccactt aattagtggg ttaatgcngg attttttccc ttgttttttc  480
nataantttt aagaattctg ttttaacccc aaattaaaaa aatttttttt aattta      536
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<210> 9997

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9997

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tattgaggac cccagaaaaa ttataaagat ttttaaaaat ccttaggaat aatccgttgt  120
aattcatcct gagaaaataa tactctttgc actttaccct tcatactcag catatcatct  180
gtcctatata gtcttcaatt atataataga aaatgttttc taccagttct ctccaaaagc  240
tgaaattact tttttcccn ccctcagtta gtttttcctc ttcaactcca aacaaactgg  300
tgtctataca taaatcctag atccaagatt ccaattcnag aaagaacatc caggacccca  360
```

atttatatat attctagcta ccactaattt ctgtngtgct acctgtngca catgatatga 420  
nanaantcnc ttggaaattg acgttggctt ttiggtcttc ccaactcttt ccccatattt 480  
tcccctgttg ttggttcct tntaaaagca tngctgcca 519

<210> 9998

<211> 419

<212> DNA

<213> Homo sapiens

<400> 9998

gtatTTTTtag tanagacggg atttcacat gtTggccatg gtctcgaact cctgacctcg 60  
tgatctgccc acctcggcct cccaaagtgc tgggactata ggtgtgagcc accacgcccc 120  
gccaatatat ttttacctac atcattttac ccactgtaga aaatgcatca gaaagggtc 180  
cnaacattat gatatggTca atcttactct catggantan taacctagg aanantaaa 240  
cttcngctg acttaagtat ttgtgtctgt acctaggtc actaatgggt tatgctttca 300  
tgantactag ttttaatat tatctatgca acttgtgttc tgtctgaaan aaaaatacac 360  
ttgtttcctg anggcncact gcnaggaaac ataccagtna tgatagacaa ancangaat 419

<210> 9999

<211> 545

<212> DNA

<213> Homo sapiens

<400> 9999

gagacggant cttgctgtta ccangctgga ntgtggTggc acaatcttgg ctcaactgcaa 60  
cctgccccctc cttgcttcaa gcaattccct gcctcagcct ccggggTant tgggattata 120  
agcaccgca accatgcctg gctaattttt gtatTTTTtag taaanacggg gtttcacat 180  
gtTggccagg ctggtcttga actcctgtcc ttgtgatcta cccgcctcag cctcccaaag 240  
tgctgggatt acaggTgtga gccactgcac ccagtcaaaa attttttagt gttagatttg 300

caacaacatt ttttttttta atgcatgtgc atcagtaact tttatgtata cagttttcaa 360  
 atatttcatt gtttctcanc atacttcaac tcattaaatc tttcccantc tttccctggg 420  
 catgcataca tgtcaacatc agttcaattt cctgtccang gtacacaatn aaccctgtnt 480  
 ttgggaacct ttgaaccggt cntaacttac aangggcaac ncctgttaaa aggtganaca 540  
 aaaaaa 545

<210> 10000

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10000

gttttgtcan ctccatccat gttccgtcca cagacatctt gttctttttt atggctgcat 60  
 agtatttcat ggtgtataag tgccacattt tctttatcca atctgtcatt gataggcatt 120  
 taggttaatt ccatgtcttt gcaattgtga atagtgttgc aatgaacatt cacatgcatg 180  
 tgtctttatg gtanaaacac cgtaagggtca atttatattc ctctgggtat atatccagta 240  
 atagaattgt tgantcaact ggtagttctg cttttagctc tttgaggaat caccatactg 300  
 cttttcacia tagttggaca aatgtctact cctactaaca gtgtataagt gttccctttt 360  
 ctccacaacc tcaccancat ctgttggttt ttgacttttt aataatggnc attcanactg 420  
 gtatgaaatg gtatctcatt gtggttttga attgcatttc tcttatgaaa aatganattg 480  
 anctcttttc caatgctgtt tgaacacata tatttcttgt tttgaaaaat tcgttcagtc 540  
 cnn 543

<210> 10001

<211> 396

<212> DNA

<213> Homo sapiens

<400> 10001

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 ctgggggaca gatgagtagc tagtactacc catctaaaac acaatgttca ttagttggaa 120  
 taatggtgtg atatgatagt cttcaanatg atgccctcaa tttctttcct ccctgcatgc 180  
 acatgctgct gtttacattg acaggtagag tcgaatctcc catttcttga atctgtgctg 240  
 gtcacaatga cttgcttttc cnataggatg gagcagaaat cgtactctag gacctccaag 300  
 gctaggtcct aagaancctt gtagtatttg ccngtgtgtc ttggganaaa ctaccacctt 360  
 gtgancactc cangtnacat tgaaaagtcc ganaag 396

<210> 10002

<211> 536

<212> DNA

<213> Homo sapiens

<400> 10002

ggtgtttcgg tcttgttgcc caggctggag tgcaatggca cgatctcggc tcaccgtaac 60  
 ctccgcctcc tgggttcaag caattctccc tgcctcagcc tccaagtag ctgggattac 120  
 aggcacctac caccatgccc ggctaatttt tgtatttttt agtaaaaaca gggttttgtc 180  
 atgttggtea ggttggcctc taactcctgg cctcaggtga tacgcctatc tcgacctccc 240  
 aaagcactgg gattacaggc atgagccacc acatccggcc agcattttta cagataatag 300  
 ancacattct ccattgaact cttcanaaaa atgtinctgga ctctgcaaac caatgactga 360  
 aatgccatgc tgctcctctt ttaattttga aagatcttct tcatcattat ctccctcccc 420  
 aagttttnan tgttggttaat ggaaattggc tttgttggaa ttgccccccc ccgaagccnc 480  
 cnccccacaaa aataagttcc gcccaaaaan ctttcaaaaa anttttttcc cncant 536

<210> 10003

<211> 522

<212> DNA

<213> Homo sapiens

<400> 10003

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aagttgacaa ttaagcagac tttatatcag catctaactt ttttaaaaaa aaggcaagtt 60
acaatatagg aatttttagag aattgatgca tttgagaaaa gatgaagcag atagatatat 120
aattgttcac agtggtaaat tataggtggt tttctcacat tttatgtcag tttcttgtat 180
atcaaaaaat acattcatac tatgagacac aggaatcttt acatccaaaa taatttgata 240
cagatgcctt aacattgctg aatgagacaa ctttggaaag attcttgttt tgtgattcct 300
ttttaccctc taagcacagt gctttgttaa cactgtgtgt gtagtaaag tgtgtgctgc 360
ttaaggtaaa gaattctagt aaactaaatg cccaagggtga ctgcgtgatt ccatgccaga 420
caggaaaaag cagtcattgct ttttgnccct anctgaacgt ttgtttcccc ncaaactatg 480
ttttcntecn cagaaatatg aaatatgcta natccagttc na 522

```

<210> 10004

<211> 510

<212> DNA

<213> Homo sapiens

<400> 10004

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gagatggagt ctagctctgt cgcccaggct ggantgcagt ggcgccatct tggtcactg 60
caagctccgc ctcccgggtt catgccattc tctgcctca gcctcccag tagctgggac 120
tacaggcgcc cgccaccacg cccagctaatt tttttgtatt tttagtaaan acgggggttc 180
actgtgttag ccaggatggt ctgatctcc tgacctgtg atcctcccgc cttggcctcc 240
caaagtactg ggaatacagg catganccac cgcgcccggc caagtatata catattttta 300
ttcataatgt ggacaggggtg gtcnacagag aaaacagact tatacatgaa agatgaatta 360
atgaatgaga ttaaaattgt tttataattt ttacatttaa atccttgaaa attaaaaagt 420
nagaaatatn atagcttaaa tatcntaten ttaaaaatta acttgcctta tttaaattaa 480
atganaaaten tttccgtatt ttttgtttna 510

```

<210> 10005

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10005

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acaaagtctt aatacgaact gttaattgt tataacaaga ttgagangc aggggtangt   60
aagtaagtca ccaactggcg ataagtcacc aactgttaat atgtgtctgc aagtttcttg  120
tttttcacaa tcactagatt tacatacaat tataggttaa ggttctccgt gtacacatac  180
agtgaagac attttcacaa taccttttga tgtagaatgg aacctgagac aaaaaaatca  240
cttaagaaat caaatctcat ataatggaaa tactttaacc acagcattca cacatttgac  300
tgtggattcc aaatgcttat ctaaacagag gcaacgcaat taaactgcct tcactcaaaa  360
tggtgtcaga aggcaactac cctatttact anccactgat aagttatgac aacactatit  420
cataacctgt cctatatattc ttttaacccc ccagccatta ggattangat tccccacccc  480
taagggnnta tccccaatgc cttantgccc caacnnttaa aaatccaaat tgcatgccnc  540
ttgaaaaact                                     550

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<210> 10006

<211> 231

<212> DNA

<213> Homo sapiens

<400> 10006

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agagttgaaa tatattcttt attttcagga tggaatatagg atagggaagg aggaaagata   60
cctttgttag ttgccactgc agtaccatcg aaagaacatc ctggggaaac aaagaggtat  120
gtgtgctaca ggaggggttg gtgactagag acttaggtcc cggaggcctg gacaccaggg  180
tcaaaaaggt gtacagggcc cagactcctg gttctgaggg agganntnnnn n          231

```

<210> 10007

<211> 487

<212> DNA



<213> Homo sapiens

<400> 10007

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gtttgtatat ttacttgttt attgcccattg cctcccccca gcaagaatgt aacctccaag   60
aggacaagtg ttgtgtctcg cttactcaca tctgtggcct cagtgccttg cattgccacc  120
cccacgcacc ccaccgcccc cagagtgccg caaanagagt gcaaaataaa tatttggttaa  180
atgaatgatg aagggaatgg tggangaggc tgtctgggcc ctttatggaa ttacttcagc  240
tcagttatgt ctatttcttt tttttaatcc tcctctctct gcccgtcagc ttccattcat  300
tccccacctc ccattctccag ggaaggggtg aaaggatgga gacagactga cgggttgcct  360
ggctgangct tgttttaggg tgtggagcaa cccccanccc aactgaactg tctgggcttc  420
cggaaggaa gaaaaaccnn tccgtcccaa aaccncnaaa attanttggt gggttcnaaa  480
aaggcct                                           487

```

<210> 10008

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10008

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aattttcttt acaatattta ttgaaaatt ccaacagtac agattgtata taaagactct   60
aattgagatt cttgtttcat tgacaaattg ttaaaattct taactgccag tgggtggtagc  120
tcacacttgt aattccagca ctttgggacg ctgaggctgg cggattgctt gaatcccgaa  180
gttcaaaacc agactggaca acatggtaaa accccatctc tcatgtaaac ccaattccaa  240
tttcatcacc atttcagaaa gatgacgatt ttctaatttg agtgactcca gctgatccaa  300
aatctcctta tgctctactg ctttgtcttc tgccttttgc atctctgctc tgaagtcctt  360
tccgtgtctg angaaagaac ctttggtgga agcaatagtg atatctcgt gatgttactc  420
ctgagttaga tgggaaattc catcttcatt ctttctantg canaactgtt actttgttcn  480
cccgttaaatt ctgttcttcc acttcttaac cctgccttgt ntccctggta tinctncccc  540
ccc                                           543

```

<210> 10009

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10009

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gcgttttcat actctttatt gccaacggtt taaaatggc aacataaaaa aaaagacatt 60
ttgataataa atactgctct ttgggctgta ataaataaaa agtttattaa caaggaatgc 120
acttttccag ccacaagtat cttcaaaaat taatgaaaaa aaattatata tggccatagt 180
tcacagttac gcagccaaaa gctgctccaa ttacagcctt taaacaacat gggancttcc 240
tcccttctcc ctccccctca ggaagtatat tcacagttcc aaagtcctct ggctgaaatg 300
ctctcaccag aaaaaaattt agaaatcant gnccttttct gcaaaattgt ctgaaaaaac 360
cttttaaac aggttttctca aggaaaaact gcattctggg cctcttggga ttgtccaaan 420
tcaaaaatgt ntgccttaac ctgttctggg tccaccantc caacaggccc angggaaatg 480
tttctgtacc acacattttt ctcttctcca aatactctna ttatccttg ggtcccgt 538
```

<210> 10010

<211> 483

<212> DNA

<213> Homo sapiens

<400> 10010

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gtttctctaa aatttagaat cttaaactaa atcctttatt tcaaaaacaa acataaaata 60
atttcccagg canaaaaaaaa gnttganang gaaacgttct tgtagcagt cccttcctgc 120
ataaatgggg ttggagaaaa aagaaaaaag gaatggccaa aggtatggaa agctttcaca 180
atgcatgccg agtgtgaant gacccccag canatggggg ttatcatctt tacttagtca 240
cacaacatca angactgggt agttccaggg gaanggtcc atttcattac ctgggtcagt 300
tctcttcccc cgcatgctcc acaatgcagt anaacaaaca acacattcat ttacaatana 360
```

atgtttaaat aacacctgtc caataactgc ccttacttct ttgtgctgtc cggaaaagaa 420  
 aaaacnnaaa gccattaaac ccnaccctt tggccanccc acccgtnnct attctcctgg 480  
 ggn 483

<210> 10011

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10011

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 aaataacatg tcttggaaat gtttagatgt ngaggggagaa ataaacaaag tcacaaggtc 120  
 gaggctttaa cataccactc taagaaataa gtacacatag ccaaaaacaa catactatta 180  
 cagtattata cagtattctg acacagctag gtttcagaaa tcattatact tgacaaaaag 240  
 gataatttac attcttttta aaatcccatg taacaattac aaaaatctct ttagtaacaa 300  
 agaaaatctc tagaaattct caaaagtagt cttttaatgc atggcatttt ctgaacacaa 360  
 taaaacacta gttgatagaa aaaagacaga aaaaggaatn taacaagcct cctaatttga 420  
 aataagcact tttctacatt actccgattn aaganaaaac cccaacntac caaattttta 480  
 gaanaatatt tcttntttta ctttccaaaa aacttntttt ccaattncca ccattatatt 540  
 tgggtggatac ttaattnctt taccncccn 569

<210> 10012

<211> 565

<212> DNA

<213> Homo sapiens

<400> 10012

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 ccagttactg aatcagaagc atttcttaca aagcaacaaa aataagcatc ccttctatgt 120

taataacatg ttaatagtat gttggcaagt tgatttanaa caacttgcca acaatacaaa 180  
cagaaaaagg agtgggtcaa agaaatctag tttggcttta ttttcaatag atcatactgt 240  
ctgttgaaaa aggaataaat aattatggag cctatctaata aatataactcn atagtttgaa 300  
attattgagt gcttccata taatangctc caggctaagt atttcatttg cattctataa 360  
ttatgtttat attaacatga aggaaacaga anttaagtac taagttctta gcatgcagat 420  
aacttatatc tatttatgac aaactttgtc cctacacatg tggctganta atttcatatc 480  
tctgggtcnt aagaatcttt gaacataatg gacttaattc cntaaccttt aactggcncc 540  
gntatatctg ttcaattcna aaatg 565

<210> 10013

<211> 589

<212> DNA

<213> Homo sapiens

<400> 10013

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acctcctggg ttcaggtgat tctcctccat cagcctccca agtatctggg attacaggtg 180  
cccgccatca ctcttgcta atttttctat tttagtaaaa atgggttttt gtcatgttgg 240  
ccacgtggt ttcaaacct tgacctcang tgattctctg gcctcagcct cccaaagtcc 300  
aggggattac aggtgtgagc caccacacct ggcttctttt aactctgcaa aggggcnng 360  
tctggcatac agtttgaaat ttgctgccac aatcccatth tgcnaacccc aaattcctng 420  
tggaaaaaag gggggtnttc catnggccc ctaaccattt gggcnaatta aactcctttg 480  
ctccccaac tgtttgcan aaaaccttaa aaggaaggcc cncctatntt ggaaacaaat 540  
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<210> 10014

<211> 541

<212> DNA

<213> Homo sapiens

<400> 10014

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ctgtgtttga ttggttttat tttatactca gctttatfff atatcacaaa actgtaattc 60
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atgtttcaag gatcattcac ctggctaate cacaatatat caaaatgctg acagacctac 180
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acaaattagc caatttatct ctgaaccatt gttttgtgct ttccttagct ttcatatata 300
cactctggca ctttgtcatt gctgggagaa tgctgattag tttgaaatgg aanaaaccaa 360
cgccattctt gcttganatg ggggcagttt tctctcaatg ttgcaaaata tgcccaaatc 420
attaagana cagaaatctc tcttggtaat ggtggattat nnatganaat gaaaaaaaaac 480
cccnacttnt ggatgtttta ataatctatt tganacctaa aaaaatgggtg ccaanccaca 540
t 541

```

<210> 10015

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10015

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gcattttttt tattgccacc agtgtagtcc caacctccat cctctctcac ctggatcaca 60
gtaagcctct gccctgcc aaccattctc cacaaagcag agtgatctct aggaaagcaa 120
ctcaggttgt gtccactct taggtaaaac cctccaacag tttctcatgc ctcagaatga 180
aatctaactc cttatcctg gactctaaca acccctcga tttagccctt acctgcccta 240
tctcttgac tctttccttg ctcactcaat ttcagccact ggtgtccttc catgctttca 300
ttcattcatc ctcaggcctt tgagcatgtt attccttctg ctttacacag cctctctctg 360
ntctttgcct ggttatctcc tacttgtctg gttctctgtg tgtcactttt cccacacagg 420
tcttctctga cttcctaata ctaaattagg atcataagtc tcagtttctt catttctgaa 480
ataaggtatt ctgcggatta aatgagaacn ttcatgtnaa ggttggtggc caagtactng 540

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559

<210> 10016

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10016

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ggccccaagc tatagcccaa gagcagctgt cagtctgtgc taccaggga ctgagtgagg  180
atgatctgtc cagccaagtt tcaactcccc tgagtgaggg gccccatag ccacaggcct  240
gggtccctgt ataggaccct aagggtgaaa gactcagggg gagaaggtgg ccatctcgag  300
tgagaccgcg tgccacagct ccttggtctg tttgctgcgc ttgaggttct gtaggatgtc  360
gttgaactgc atcatgcca tgggcgtcag gcagaaggcg ctgcgggcac tccggatcgc  420
attcaciaag tcgtcgtagt ccgcangagt cangtgaatc aagctgtggt ggatgtactg  480
catgtatgcc tgctggcaac gcttgaccan ttggtggaag gnccgggcac ncagggtgggt  540
gtgggcctna accggactaa c                                           561

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<210> 10017

<211> 524

<212> DNA

<213> Homo sapiens

<400> 10017

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ggcaggtttc cttttattgg ttctagacag tttgtggaag gaagagatga ggcatntan   60
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ctccagggat gttgcagccc taagcacagt gacagggtggg ggcaggagca gcaggggtcc  180
ccgaggtgtt ganaggctgg tgagggcaca gagaaggac ctcctggggc tgaggcccct  240

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ggtggcccta tgtgttggag cacgctggcg cttgtctgtc cggcctccag tcacgccaag 300  
gcctcctgcc ctgaccacca gcaatgctgg cctcaatgtg gctgaagctg gacgtgtgac 360  
tttgaccccg tgaggggggc ctgggaaggg ctcanttgc gccgttgctt gtcgtcactg 420  
tccaggtatg caccagttg gctcanggan ggacccccca ngcgttangg gtttanggtc 480  
ggncctccttc ctggtctggg gggcttctgg ggtngggggc ccct 524

<210> 10018

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10018

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ttgcaagttt ccatgtaacg tatcttaatc tacattccca aagtaattgt gtctcaggta 120  
acctttgccc tgcccaaaag atgaacaaaa ataaccagaa aggtaaaaat ctgtctttgg 180  
agttggggga atcactggcc acttgcaaac tgccacttca ctgccaactt ttatccaaga 240  
aaaccggttt ctaaaaacct gcaaaaggga catttaagag gaagctgttc cctgaacgaa 300  
gactgagcag gacaagccaa aagcgggtgcc aggggacaat gccagatggg gaaagtagga 360  
gccgggttgt gagacggaaa cacacacgcc aagaacagcc agggagcaaa gcgaggagtt 420  
ctggcttctc gtaactcatg aaggatgaat gctcatcggg taaatttaga cgataaagct 480  
gatgatgacg gccccggggg ccgnttttgg aaccncctta nttccagtnc ncnagaaaag 540  
aaaatnttgg agg 553

<210> 10019

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10019

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 tacaggcacc caccaccatg cccagccaac tttcatatt tttagtagag atggggtttc 180  
 accgtgttgg ccaggctggt ctggaactcc tgacctcaac tgatctgccc gcctcagcct 240  
 cccaaagtgc tgggattaca ggcatgagcc accgcaccca gccttcaagt attttttctc 300  
 ccctccccct acaatcgccc cctcttcagg gactctactt acatgtatat tgggctgttg 360  
 gaagctatct tgcagctcac tgactgatgt tcttttaaaa agaattcttt ttttttctct 420  
 gngtttact caggatagtt tctattgaga cttctctgag ttcactatta ctttataaca 480  
 tttaatctac ccttgatctc atcctgggna tccgcatntt aaaacactgg gggtttcatc 540  
 actgggaagt ttgaatttg 559

<210> 10020

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10020

aaacaagtga acagttttat taagaattaa atgagggtat ggaatgtgat acagtacaag 60  
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 aaaaaaaaaat cacaagacaa aagaaaaagc aattccatca ttataaagta agctatttca 180  
 tgcaacgtac taatactccc cctcccccca aaaccccaac ttccaacaa acaaaaagct 240  
 atctgaaaat gctgccatgc taacatatga accacggtat attcattcat ggaaaaacac 300  
 actcattaag caatggatta gataaaataa cacagtttgc agtattgtaa actcatagac 360  
 cacaatgatt tcacatgaaa agcaattcca gattcactca tagggtgagt aatatgggct 420  
 acatagttga gagataatgt aaatataaac cccattaatt ctctcattat cttctaatta 480  
 tnaaacctgg aagcttagat aatctggaaa attcatataa aatnngnata cttcacttgg 540  
 gntccaagaa atgactttcg gt 562

<210> 10021



<211> 514

<212> DNA

<213> Homo sapiens

<400> 10021

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ganacggaat tgngctgttg ttactcggc tggagtgcag nggcgtgac ttggctcacc 60
acaacctcgc cctcccgggt tcaagcgatt ctctgcctc agcctcccga gtagctggga 120
ttacaggcgt ccaccaccac gcctggctaa ttttgtatit ttaatanana tggggtttca 180
ccatgttggt caggatggtc tcgatctcct gacctcgtga tctacctgcc tcagcctccc 240
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cagcttaaac aaactaagat gattattccc acagaggaat cgtttttatc ctttaaggcgg 360
ggttaggagg aattcacaag agagacctgc tgatggacag acagtacatt gcgtgtcgac 420
aggagtccac accaatgcca cctgcaaate aanngcctga cattcccatg ggggcncaan 480
aaaaaggntn aatagatccg tttcctttnt atgc 514

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<210> 10022

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10022

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agtagagacg gggtttcacc atgttagcca ggatggcttc gatctcctga cctcatgac 60
tgcctacctc cgcctcccaa agtgcctggga ttacaggcgt gagccaccgt gccagccag 120
caaaacaatt ttctacacaa atgtccttat gaaatgccat gaaccccaag tacacttggg 180
cagaatgaac ctattacttc attttcccca cagccaatca cccttcccca tgccttagac 240
catcccaatt cctcagcca taaatatecc taaggcttat cttgaggagg tggatttaat 300
ataagttgcc aggaccagca gacctgaaa ctccccaccc ctgcccttcc tatattctgc 360
ttaaatttg gtggatgaac ctcatctcc ctttaattgc agaacagaaa tgtgtgacac 420
tcctgagtg tcaatgaatg cctgatccct gcctaactca ggaaattctt ggcatctttn 480

```

caaggtgctc ccctaaaaat ggngctccgg ggaatgatct tacagaactt aaggctttac 540  
catttatggg atcgna 556

<210> 10023

<211> 555

<212> DNA

<213> Homo sapiens

<400> 10023

gtagcctcgc tctgtcacca ggctggagtg ctgtggcacg atctcagctc actgcaacct 60  
ccgcctcctg ggttcaagca attctcctgc ctcagcctcc caagtagctg ggactacagg 120  
cacgtaccac catgcccagg taatttttgt attttttagta cagacgggtt tcaccacgtt 180  
ggccaggatg gtcttgatct cttgacctg tgatctgccg gtctcggcct cccaaagtgc 240  
tgggattaca ggcgtgagcc accgcacctg gcctgggcct gccctattaa acagacttat 300  
taccataatc aggaccatgt ggtttttagca cagagaacaa ctaacggata cctatgcaca 360  
cagggaaact atgatgacag acagatactg cagagtaaat tattatttaa taaactttgc 420  
tgggataatg ggtgtccata aggaaagaac tgaaaacgga cccactgggtt actcaatacc 480  
caaactcaat tagaaaangg gattaaaaag nttcnaaaga acacnttttt tttttttttt 540  
ttccttgana naggg 555

<210> 10024

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10024

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agtgcagtgg tgtgatcttg gctcactgca acctccgccc cccgggttca agcgattctc 120  
ctacttcagc ctccccagct gagattacaa gtgcacacca ccacacctg ctaatttttg 180

tatttttagt agagatggag ttttgccatg ttggccaggc tggctctggaa ctccctaacct 240  
 caagtgatct gcccgcctcc gcctcccaaa gtgctgggat tacaggcatg agccactgtg 300  
 cctggccccc aaatatatct ttcttatgct ctattgatgt cagaggttct aagatatcac 360  
 caaatcacct atttgaatat ttaagctcta acttgatcat cctctgtccc tttagttaag 420  
 agttggggct gaaggcagcc tgncttttct tccccactgg gggatatagg ncattttcaa 480  
 ccttttcctg ntccaatact tggctactgg ggngacattc ttttaaaatt tcatggcatc 540  
 tntttnaaaa agncccta 558

<210> 10025

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10025

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 tggcctcagc ctcccaaaga gttgggatta cacaaaacaa aacaaagcaa aacaaaacca 120  
 ggccacacag tgttgggtta caggcttgag ccactgcgcc tggccatgaa tccittatca 180  
 caccacaggg gcctcaggta ccaatcacag ggcccatgtg ctccatcttg ggaaagtaac 240  
 attcatccat agccagtaaa aagcaggggt ttgggtgcgt gcctcaggcc catcacaggg 300  
 gatgctgagg ggggcccagc gctctgccc cactgcctgc cattgaacct ccactctcag 360  
 aagctacgat gtgagagagg tgtgtttaga attgaggaaa gaagccacct ttgtcaaaga 420  
 tccctccaca ggcccaagag aaagtgaata gaccattttt acgcccgtt tgctgacttt 480  
 tttgatcttt tataaaacaa gccacacctt tccctaagna gggaagtnc t aagggaattt 540  
 caaacaagnt tggtngggc 559

<210> 10026

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10026

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ccgaagagtg gtgaggaggg caggacaatt tctagaggca ggggaatctg aaagtttcat 60
gccaggggaa tggagctcag tttatcttcg aagcccttct ccccatccca ggggggcccc 120
ttaccacgc ctgcattatt gaacatgccg ggaagcacca gcatgatgtg gttgggccag 180
tacttgcggt acagaggcat ctcatactct ttgaccacca ggaggtgaag gtggctgatg 240
ccctccatgg cgtggaaaag gtttaggagt ccgtgctcat gtcgaccact ggaaggagtg 300
aaaatagggc tcttgactgc attcaaattc ttgtctgaaa ccaggggcag ccgcatgctc 360
tccaggtgct tgccctgctt gctgaagaca aaatgactct ctttgattt gggaatgatg 420
aaatatagct gaacctcttc tcccagcata gaagaagaga atgtgaangc atgaanggtg 480
gagtcagaca tntggaagca naagtgaaat ccatgtactg gcggacttgt tacaannggt 540
gaaanggggt 550
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<210> 10027

<211> 545

<212> DNA

<213> Homo sapiens

<400> 10027

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gagacggatt ctgcctctgt tgccaggctg gaggtcagt gcatgatctt ggcggctcac 60
tgcaacctct gcctcctggg ctcaagtgat tctcctgcct cagcctcctg agtagctggg 120
actacagtg cagccacca caccagcta atttttgtat ttgtagtaa gacgggggtt 180
caccgtgtt gccagcatgg ttttgatctc ttgacctgt gatctaccg ccttgacctc 240
ccaaagtgac ggaattacag gcgtgagcca ccgcgcctgg ccganagtgt gattttaaaa 300
tacaaccaa ccagtctggg gtctgtactg ccaaccacct gccttattgg gctcttgcac 360
tccaagccac tatctttctg ccctaatac ccaaggcca ggtgtcaggc cgntaggcag 420
cctntatgcc ccagagccca caaatgctt catactgnc catctgaanc tgnntggctg 480
gccttgcctt tttttccat ccaancctta ttaaaagctt tngnccaaag tccctcatga 540
atttt 545
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<210> 10028

<211> 570

<212> DNA

<213> Homo sapiens

<400> 10028

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cttttttttt tttttttttt ttacaggaaa gccatttact cctggtgaat tcctcagggt   60
cccaggttca acactttccg tgatgtcaga gtactcagtc agggatgatg gggacagggt  120
gtcagaacag tcttgatggt cttgccagca acagcttttt cttattttcc ataatttgggt 180
cttagtcgtt ctccagttgt cttcatgtaa ataaagtggc ccatggcaat catgattctg  240
taattgttat agtgcctttg taagttgaca gtttccaaat ccccttactc atacgacccc 300
tgtgaagggg ggtgtgaagg ggttggtggg cttgtgcata tgagggaatg tgaacgattt 360
cattatgacc gaattatgct ttactcaata agcactcaaa cactaccatc tcactttagtag 420
tagaagtgct agggatgcaa ccaagaaact ggttgaataa tgggaangtt aaatgcctga  480
gtattttaat ngaaaaaaat nttaaaaacc aaccctaaact cgttgggaaa gangcttttg 540
ctanggcctc ctttttacaa ngggttggcc                                     570

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<210> 10029

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10029

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ctttgggaga cagagtttcg ttcttgttgc ccaggttgga gtgcagtggc gcggtctcgg   60
ctcactgcaa cctccacctc ctgggttcaa gcaattctcc tgcctcagtc tccctagtag 120
ctgggattac aggtgcccac caccacaccc aggtgatttt tgtattttta gtagagatgg 180
ggtttcgcca tgttggccag gctggtcttg aactcctgac ctcaggtgat ccacccacat 240
tggcctccca aagtgtctggg attacaggcg tgagccactg cacctggcca agtgtacatt 300

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cttaagaaca acgtacatag attggggaaa agtatctcgt tttcattctg agagctaata 360  
 caactgagag tgtacgaaga ggtcaaacac agggactgct gggtggaaca cactgncact 420  
 ccacctnccc ctncacctct gtgccacaca cctgatgtgg cccacccaa cacagncacg 480  
 anccttctac cccccancan ctgccaaggg ccctgagttt aanccaaaaa aggagcangg 540  
 gcatncttt 549

<210> 10030

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10030

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 gcacacgcca ccacgcccag ctaatTTTTTg tatttttagt agagacgggg cttcaccatg 180  
 ttggtcagga tggctctgac ctcttgactt tgtgatccgc ccacctcggc atcccaaagt 240  
 gttgggatta caggcgtgag ccaccacgcc cggcctcaac tcttaataata tgtcagcccc 300  
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 tgtcctagag tccagccaac ctgagctctg tgatcttggg caagttattt cccttctttg 420  
 agtgtcaagt tttcttcac tattaatgg ggtcatcact ttcacttgn ctagaaaagta 480  
 tccagataat acacagttag cacagtgcct ggcccacagt aaacctnga atggtgnagc 540  
 ttcataaaaa aaa 553

<210> 10031

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10031

attgcagttc actttattgc acgtcaagat attgcctttt tttttttaa caaattgaag 60  
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 ccactttgta tctgtgtgtc acactttcgc aattcttgca atatttcaa cttcttcctt 180  
 attatatctg ttgtgaagct ggttctccca gacgttcctt gcaggctggt tatgcagcgc 240  
 ccatccgaga tgaaccacaca ggacactcag gatcccagac tgcaggagtc gtctgggac 300  
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 ttatcctcac tcacgtggaa atgagattcg acctctccta atcacctggt gcccaggag 420  
 caggtaggcg cctgtcccaa gcctgagttt cctgggaaat ctacatttca gcacagatgg 480  
 gttcccagca gcttantgct ctggctgncc ttangnact gaatcatttn acccctaggt 540  
 ttttgntgg tggtttgaaa a 561

<210> 10032

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10032

cattgtacaa tgctaattgtt actttatctt gaaaacaatc ttgagaagta ggaattattg 60  
 tcctctttca caagacagga aaaatgaggc caagggttag tgacttgctg agggtcacac 120  
 agtgacagag tggatctctg gtccctgtcc ctgacttctt ccctagggct cctcctcctg 180  
 ggcatctcac tcagaggaag cagggccatc agtgggtactg gtgccagctc ttggggagct 240  
 attttcccc aggtgggtta agttctctcc tagtatacaa caggatgggtg gctacaccgt 300  
 catgataggg agaacagcta tcttaggagg ctgcttgcta gacagagatg ggtgtgtgtg 360  
 cgtgtctgtc tgtctgtctg tctgtctgtc ctgggtccag agccgtcaat tcttcagcct 420  
 cagtcttccc tctattgccc tctcctggac atagggaaga agtgcctctc cctgctgccc 480  
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<210> 10033

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10033

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ggtggaagaa acagatacat cagactagtc cagcgtctca gttccacac ttcataacaa   60
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ctgtaacagc caattaccca aaacactaaa tagggaatgg ctcaaaaaag gctgtttctg  180
aaaaagcagc agcattttga tgagcaaaaa tagtaagaga ggatttttta aacttagaaa  240
aacgaggaaa gttgaacca gctaagaata tttctgagac acccccacc cttgtgatt  300
tttctccgc taggattttc cttgactcg cctctttaga gactgctaaa cacacacaca  360
catacacaca ctcatTTTTT aatcccacca actctcctcg cccaaggcc agaggcttgg  420
cggtgacagc ttcgaacaat gacatcacc taggtttgcc tccttggcag ggtcaccaat  480
actgnttgca gtcaatttcc tgtaaaggct ctttaangna ngaaactaat cctgngccct  540
gaggccttcc ctgngntgaa c                                         561
    
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<210> 10034

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10034

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cgaccaatat ggtttatttc tgccccagcc aagcttcttt ggaccctggc tgggggaaag   60
gcaccccagg caccggcaag ttccagtcac tgcanaacct ccaggtctag gtgtgactgg  120
tagtagcctg ggcaactgtg ctggacgttg tattctcctt ccttcttccg ccggcgggtg  180
gtcaccagga caccgcanat caggcatgtg atgagtccca ggagtctgc caagccgatg  240
aagatgacag ccanaaggg aaggtcanaa ttcccagtta agggtcatt tctgttggga  300
gaatacccat ccacaaggac actgctcctg tccagggtga agttctgcag ctgggtacca  360
ttccgggtca tccgcagaaa ttccatcatag atggcaactc tgnctactct ccgagccagt  420
    
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ggcgaaaagt tcacagggag tccaccccgg tgtggtgcct gttggggaca gacctgaatg 480  
 ttgaacttga cagtengaaa aatactttgg agctgctgtt tnggaaaaaa ttgtttaacc 540  
 catnctcaan tttcnt 556

<210> 10035

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10035

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 tatcatgctt caaggggccc actccactgc agtgggttct caggacaatt ttttttttc 180  
 cttttttcta tagctaaatc tgcaggatag atcttcagta tcttaaaatg gttacttta 240  
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 cccg 544

<210> 10036

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10036

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gattacaggt gagegccacc atgccagct gatttttttg tatctttagt agagacgggg 180  
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 ctcccaaagt gctgagatta caggcatgag ccaccgtgct cggccaaaaa tgaagcattt 300  
 cttattagta gaagaaagaa gaccagctaa acaggaagca taatgaactc ctagctaagc 360  
 tcagaggaat ttgtctgcaa aacccttaca gaacaccaca caatcaaatt atttgctcca 420  
 tagcaacttt acccccaaag tgcanatctg tttggcttat tggcttgagg gctacctgcc 480  
 aggatctang nccatggtgg cttggcctct gagctctggc tttncatttc cacnggtttc 540  
 tgggtgggggn ccctaaattg g 561

<210> 10037

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10037

gaaaagtata taacagattt ctttattatt atttacaatc aagttctgtt ggccaacata 60  
 atgaaataaa taaaagatgt gccctggcct gtgaatttca actctccttg acttaagttc 120  
 tctgaagggc aaatttgaaa gcggtgatca ggcaggggaag agagggcagg tggaggccag 180  
 gaccatcgtt gggaaggccg cctgactcct ctctcaccag ctctaact caccatccca 240  
 aatgtccaga gaacaagcat ggaagaaaaa aaataaagtg caaatTTaaa agtgataaaa 300  
 aggggtgttc gcacacccaa tgaactaaaa ctttatacgt aggtaaaata gtaaagataa 360  
 atgtttttcc ttggccttca tcacaacccc tgaaacggaa agatggcgct gctgtgcttc 420  
 tgagcctagg ctctttacct aaagcaccaa gggcatcgca cacangcttg gcaaaagggc 480  
 catggncaga atcccacctt nagacaagta tgttggangn ctcgaaaccc ttggancccc 540  
 aacatgcang ggg 553

<210> 10038

<211> 541

<212> DNA

<213> Homo sapiens

<400> 10038

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anacggagtc ttgctctgtc tccaggctgg agtgcagngg ngngatcttg gctcattgca 60
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cagttgcatg ccaccacacc tggctaattt tttgtatttt tagtananat ggagtttcac 180
catgttggcc aggatggnci caatctcctg acctcatgat ccaccacct cagcctccca 240
aagngctggg attacaggng tgagccacca caccggctg tcagtgnitt tataccatt 300
ttggggaggg aaaaactgag catcccaga tgaagtaact tactcagggc cgtanaaatg 360
tgacaaaaat caatcttatt gactcattct aaaagcaact cattgcctct taaatgaaga 420
agaaagacat ccttcagctg gctcttgggt tcanaccccc tgggctaagt caccttggct 480
acatggntca tcanaatgcc cactcttgg acctttangg ggccacaagt ntttattgga 540
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<210> 10039

<211> 566

<212> DNA

<213> Homo sapiens

<400> 10039

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gggttgatgca aagaaagctt tttatttgag aacacctaga tacttttggga aatgttcttg 60
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tccagtcttg cagaccacac aggttacatc tagagggttc tacttgcatc acccacactt 180
ccactcctgt gaaacaactg tcttgggcat gagaagggcc aggataggcc aggtgaatgg 240
caggctgccc aacaaccca atcccaaacc aacctcccag gccatgggcc caagtccctg 300
caggaagatg ctaataggta caacaggtag aacatgtaga cacaaacatc tagtttattt 360
tttctgactg taaccaaagt cagcaaaaga aacaacaaaa cttcagtgcc ctagaaatcc 420
tcctggattc aatgacaaca catcaatggc cgggcacang gttggattcc ttttatgaaa 480
tcaccttata atctctcatc atnccaggac agtggctttt gggactgcat gaatcnttna 540

```

tagctcccc ccaaattntt atcctt

566

<210> 10040

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10040

```

gggcagcttt catctgtgtt tatttttttt catataaaag ttacatgttt gaaatgtctg   60
caggaagatg ccaccatcag acaggtttagc tggggcatat atattacaat gtaaccctgt  120
ggaggtcgtg gggccggagc gggaagatgc tcccagtgag ggcctgggga tttgcctggg  180
cacactgggg ccaggcacag ggtctgttct gaattcaggg aaggtgaaga gaccccacct  240
ctatccagct caagcccaag aacaaggcag acagagctgt ggacagcacc cgaccacaga  300
cacggttctg cctgctgctg gagtgaagg cctggtttct gaggctgcag catggcactg  360
gcattgcctg tgctacagat ggggactcct gcgagtctca caaatacagg gagaatttca  420
gttcacacaa cccaagggcc ctgtgtgcaa agcgggcctt aaacgcgcac aggaacattn  480
aacaaaactt ggcaagggga agggganaaa anatcaaggt ttgnaatgaa ggncttttaa  540
aaagaaggnc cnacttaaaa c                                           561
    
```

<210> 10041

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10041

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gatacagagt ctcactgtgc caccaggtt ggagtgcagt ggcgtgatct tggctcactg   60
caagctccgc ctctgggtt cagccattc tctgcctca gtctcctgag tagctgggac  120
tacaggcgcc cgccaccaag cctggctaatt tctttttgta ttttagtag agacgggggtt  180
tcaccgtgct agccaggatg gtctcgatct cctgacctcg tgatccgcc gccttggcct  240
    
```

cccaaagtac tgggattaca ggtgtgagcc actgtgcccg gcccaatttg tttttaagc 300  
 cctgatgttt tctcagttgg gtttgaactc agtccctcta caaagtcatt ctaaactatt 360  
 cctagactga tagaccattc ttggattgga ccattcctgg attgggcaat ggcaacactc 420  
 ttccagaaac cattagaatg actctaaaga gagcagaagc actttttctc tctgcctctt 480  
 cctaaaggct gaatatatcc tattggccat gggctggtca attccttttg angtgaggga 540  
 ttgactcctt ctcaactccc c 561

<210> 10042

<211> 505

<212> DNA

<213> Homo sapiens

<400> 10042

agatttaaaa gcatttaatg acatagcata tatttaacag atagggcaaa agttgagagg 60  
 tacaggtcgt acgactgagc accaggcctg agcgaccacc tccctgttca ggcccagcct 120  
 ctggagtcca ttcctatcaa tgtcattttg attgtgcagt aagatgaaaa ttgtcatta 180  
 caatagttac agtgacagag aaatgcacac tatgtatcaa atagcaagga aatgaagcaa 240  
 attataacac agtgtggcaa cgcacgagca agtaaccatt agagtaacat tactttgtcc 300  
 agtaaagtct tcagttccac cacttgtaca cttaccaatg atttaaaggg ttattatac 360  
 atctagtttt attatacttt gnactagaat tatctcaaac gtacaatata atgnatttca 420  
 gcaaaaaaaaa aaaaaattgg aattaccgat tatttnaac agnntcaggt ttctattcct 480  
 tcttggtac tggcantntt aancg 505

<210> 10043

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10043

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 ttcttgccct cctccacgc cctgataaat aacatgagca tgcagcgatt gccaacagca 120  
 gctccaggca tgaggcacia catctgttac tgagacactg gagagacagt ggaaagcaag 180  
 ttggctgcct gccaacccctc agactccaga tttttgctga caaggctgtc aataaatggg 240  
 cagatggcat cagctctgct ggacagaagag ttcagttaac ccagtgcggg acattatttc 300  
 aaattcatgg tgcaccaggc tgagcccttt gttgggcat taaagccatt ccttgatgga 360  
 gaaggagag caggactagg aatcaggag gcactagctt catttaatta gattaactaa 420  
 gcctttccag tggcagccag aatcaganta ncccttngga acnttgaaag ctatggattt 480  
 ttttttggg tttggaaggg ccgggaaaaa ncctanttcc acattgnatt ttatgccat 539

<210> 10044

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10044

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 ttaaaggcac atgccacat gcctggctaa ttttttatat ttttagtaga gaaagggtgtt 180  
 caccatgctg gccaggctgg tctcgaactc ccaaccttag gtgatctgcc tgtctcagcc 240  
 tcccaaagtg ctgtgattac aggcgctct tttccttaat aatccctaat tcttggttag 300  
 gttgttgggt aaaagttatt tcctgataaa caaggcgtaa ccttatatat attatcaata 360  
 aaattatatg tataaataca tggaaatgca cgcatagtat tgcattattc aataagaagt 420  
 tttacagctg aatatccctc ttaagaattc cttgagggcc aagactctat ttcctttttt 480  
 tccttttctt ttttttttga anccgggttc ccaggntgga atcacagggg gggaacntn 539

<210> 10045

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10045

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gagacggagt ctcactctgt caaccaggct ggaatgcagt ggcacgatct tagctcattg   60
caacccccgc ctccccggtt taagcaattc tccctgcctt agcctcccaa gtagctggga  120
taacaggcgc cgcaccacat gcctggctaa tttttgtatt tttagtaaag acagggtttc  180
accatgttgg ccaggctggg ctcaaactcc tgaccttagg tgatccgccc tccttggcct  240
cgcaaagtgc tgggattata ggcgtgagcc accatacctg gcttgctgct accttttaa  300
tgtacatagt aatcaaactg atccacagaa tgtccctttc agggacatga taactgaccc  360
cctgaaccag ccagaaagag gagagggact tgccttaagc aagtattgtg ggaagatcac  420
caaattacta gacatggatc actatccntc tggatccggc cccaacaaa cnttaaaatt  480
accttaccaa acangngtag aacaatntga aatggaatta aaaggngccc caaactggat  540
tgn                                                                    543

```

<210> 10046

<211> 510

<212> DNA

<213> Homo sapiens

<400> 10046

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gctcttgttg cccaggctgg agggcagcgg cgcgatctca gctcgtgcaa cctcagcatc   60
cctggctcaa gtgactctcc tgcctcagcc tcccagtag ctggaattac aggcgcgcac  120
cacaacaccc agccaatttt ctgtattttt agtagagacg gggtttcatg ttggtcaggg  180
tggtctcaaa ctctgacct caggngatcc accaccttg gcctcccaa gnggtgggaa  240
tacaggcatg agccactgng ctcaggcccc aagcccccat tctttctgta acctcaagat  300
ggcatataag cttctgcacc ccattgcana gtggggagta atcaatcact ctngggttct  360
ccctgtgtgc gcattaataa atttgcattg catttctgct attcatctgc cttttgncag  420
ttgacttttc agtgaacctt tanagggcaa aggggaaagt ttcccttgnn tttcataccn  480
tcaaaccttt ttcaccaggc ngaaanaagn                                                                    510

```

<210> 10047

<211> 423

<212> DNA

<213> Homo sapiens

<400> 10047

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gcttagaaaa ttcagcttta atggccccag cccttctgtc tgagtctagt agtccagggc 60
acagatgagg gccacaccac gctttatcca gtgtcgctgg ggctgatggg tggggatctc 120
cacagcaatg acatagttgg tagagtgtcc tgtggttgat agtgttccag cacgagtcag 180
tgtctttag atggggcaca ggtaaaagtc ctggctcctg gccttgcggt tgggtgttgg 240
caagagccag ataacggcca tctctgtgta cagctccttg ggctgagact cagccagctg 300
gaaggcctct ggatcccagc gggcaccttc caggaataat ccatggatat agcacccctac 360
ttggggtctt tgngttaact ctgatggtgc ctnaaacatn accttgnaat caaangana 420
tgn 423
```

<210> 10048

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10048

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gagacggagt cttgctctgt caccgggct ggagtgcagt ggcgcatca tggctcactg 60
caagctccgc ctctgggtt cacaccattc tccagcctca gcctcccaag ctgctgggac 120
tacaggcgcc caccaccacg ccaagcgaat tttttgtatt tttttagtag agacagggtt 180
tactgtgtt agccaggatg gtctcaatct cccaaccttg ngatccacc accctggcct 240
cccaaagtgc tgggattaca ggcgtgagcc actgtgcctg gactaaaaca atgctttcta 300
aagcgcattc tgcagcctga tgtgcctgtg aggtgagagg tgtgggaggg acagaagctt 360
tgttcaaaga ggtttgggag aggctggata cttagctccc ttcttgnaag tttgccacac 420
```



acattggcat attaaagggt ctgagaaagc attcaggga ctggtctggt taaggggccc 480  
ccaataactt ggcccatna cggntaattc tgggaantta gttaataacc tagggttcgg 540

<210> 10049

<211> 497

<212> DNA

<213> Homo sapiens

<400> 10049

aaagacagag ttttgctctg ttgccaagc tgggggtgcag tggcagatc tcagctcact 60  
acaacctctg cctcctgggt tcaagcgatt ctctgcctc agcgtctcga gtagctgaga 120  
ttacaggtgt gcaccaccac gccagcaaa tttttgtatt ttagtagag acaggttttc 180  
accacattgg ccaggctggt cctgaactcc tgacctcaag tgatccacct gtcttggcct 240  
cccaaagtgc tgggattaca tgcttgagcc actgcacctg gcccataata gagtttttat 300  
tgncattatt cccatattac agatgaaggg actaaggctc aaagggtaaa taagtctgtt 360  
cttaaatagt gacttcctga gacacaggag atgtttaaga acagtactgg taggtgggaa 420  
gtggcatttt ggagcaggag tgagaagcct tgaaaatgta tnaaganttg aaaaagggnn 480  
gggaaacann ccnatta 497

<210> 10050

<211> 527

<212> DNA

<213> Homo sapiens

<400> 10050

aattggatga ttttggacaa gtctgtgcat ttattcatat cttattccat gtcaggggac 60  
tcagtacaaa ggtgaaaaag acaaagttgc tgttctcaag gagtatactt tagacacata 120  
agctagcaat aaacaaacag gatgatttta gctcatgaca gggctacaca gacagtaaca 180  
gtgatgagat agagtgatgg ggaagaggtg cttaaaatgg ggttgtcagg aaaggcctct 240

gctaaccacc agatctcatg ggctcatctt gagatttaac ccagcaaacc tcttctgagc 300  
 cagttggcac cactgatctc cctccctcc tttaaactgt tgccttcctt gatttctgtg 360  
 acaagatact ggtgtcacta tctccttgnc tcctctact tccagctccc tctttcagcc 420  
 ttctatgcag gcacatcttc ttttgccacc cattaataac cctggtngcc angacaacca 480  
 ttccttctgg cggnttgaaa gaaagctcaa gtgcncacaa ggccnnn 527

<210> 10051

<211> 564

<212> DNA

<213> Homo sapiens

<400> 10051

aaagacacgt gtctccctct gttgtccagg ctagagtga gtggcatgat catagctcac 60  
 tgtagcctcg aactcctggg ctcgagccat cctccaacct cagcctcaca gatccctaca 120  
 actacaggcc catgccattg tgccctgttg cattcttttt acttttttgt agatactggg 180  
 tctcactgtg ttgcttaggc tggctcctaa ctccggggct caagcaatcc tcccacctcg 240  
 gcctctctaaa gtgttcggat tagaagcatg gaccactgca cccggccttc tgagctcttt 300  
 ttcaactagg tctcaacttt tggacttctg tgttcatctc tgccttggtc aatttttagca 360  
 agtatcgtgc taaagttggg tttagctaga atcctcatcc tncacatctg atcactctca 420  
 aaatctaate gggcttctta tcctntggca tccttcatga atggctaatt accctgggct 480  
 ggccctnaac aagaaatcct ggtanggact atttaaccgg aattccccac aaatgcctgg 540  
 aggaancctc ttanncattg ggc 564

<210> 10052

<211> 555

<212> DNA

<213> Homo sapiens

<400> 10052

acaatgctaa tgttatttta tcttgaaaac aatcttgaga agtaggaatt attgtcctct 60  
 ttcacaagac aggaaaaatg aggccaaggg ttagtgactt gctgagggtc acacagtgc 120  
 agagtggat cctggtcctt gtccctgact tcttccctag ggctcctcct cctgggcatc 180  
 tcactcagag gaagcagggc catcagtggg actggtgcca gctcttgggg agctattttc 240  
 cccaggtgg gtttaagttct ctccctagtat acaacaggat ggtggctaca ccgtcatgat 300  
 agggagaaca gctatcttag gaggtgctt gctagacaga gatgggtgtg tgtgccgtgt 360  
 ctgtctgtct gtctgtctgt ctgtctgtct gtctgtcctg ggtccagagc ccgtcaattc 420  
 ttcaacctg ncttctctta ttggcctttt ctggacatag ggaanaagt cttcttctg 480  
 gtgncccaa gaatactcct ggctntttca nttttcccaa atccatcctg aaatggncct 540  
 ttggcttgcc ccaag 555

<210> 10053

<211> 529

<212> DNA

<213> Homo sapiens

<400> 10053

aaagggcaca catacacttt taccgtttac accaaaccag aatcaaaacc caaatcagag 60  
 tatccagaaa tccaagccag gtcaaaacca aaacgaaagt atcaagcaat ccaaataag 120  
 tcaaaaacaa aaaccaaagt gccggtacag gcatgccgtg ggtgatcagg ccacccttcc 180  
 actcaaatgg agtgggcaag ttccaaagac tagtcttacc aagtttcaga tgtccggact 240  
 ccaagtgcct gttccttccc agtgttcagc cgctgcattg atcctctgtg gtggcctgcc 300  
 acagccact ctggcgagggt gttccactgg ggcaattgcc taccgggag tgctctcagg 360  
 ttctgcgtcc ctcaagctgg ccagagtccc ctgtagggat gctccacagg gcaggcctat 420  
 gctgcctaag gggcttgctt cgactatctg gtaatcacct ggctttccaa tcagggnacc 480  
 ccagaaatgt ancanggaca agnccgnang ggttgattt cancctgga 529

<210> 10054

<211> 496

<212> DNA

<213> Homo sapiens

<400> 10054

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gagacagagt ctcagtcacc caggctggag tgcagtgccc cagtcttgac tctctgcaac   60
ctctgcctcc tgggttgaag tggttttcct gccttagcct cctgagtagt ggggattaca  120
ggtgtccacc accacgcccc gctaattttt atatttttag tagagacggg gttttgccat  180
gttggccagg ctggtctcaa actcctgacc tcaggtgacg cgcccgtgc agcctcccaa  240
agtgtgggga ttacaggcgt gagccaccgc gcctggctaa agcagtgggt ttataaagg  300
atctgtcca gtttctacct tcggtagtga caatgtgttt gtttgcatth cccacacgtg  360
tgtccaatgt ttgcttggtt tcttcttcag gaaatcaact tttgtgagt gtgctgaagg  420
caacangctt tgccagtaca cagaacttcg tgaaaaccac tngaaacngn cacttgctca  480
tctgncnttt ctgngg                                     496
    
```

<210> 10055

<211> 462

<212> DNA

<213> Homo sapiens

<400> 10055

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gagatggagt tttgtcttta ttgcccaggc tggagtgcaa tggcacgacg tcggctcatc   60
aaaatctcca gctcccgggt tccagcgatt ctctgcctc agcctcccaa gtagctggga  120
ttataggctt gcgccaccac acccagctaa ttttgtatth ttagtagaga tggggtttct  180
ccgtgttggt caggccgggc tcgaactccc aaactcaggt gatcagccca ccttggcctc  240
ccaaagtgtt gggattacag gcctgagcaa ctgcgcccgg gctttttttt tttttttaa  300
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acctccgctt cctgggttca agcaattctt ggnattttt agtaaaanat ggggctttcc  420
atattggccc aggctggnet aaactccngg ncttaaacca nn                               462
    
```

<210> 10056

<211> 417

<212> DNA

<213> Homo sapiens

<400> 10056

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gcaaagacaa acatttttatt ttcatgata ggagctgtag cagagtatat gggggcctct   60
gccagcccc aggctgggac tggggcctgt gaccttgaga acctcatctc acattctgca  120
gactttggcg gcggggcagt gctcgaccac tggctgggtg ggctgatctc agcctctcct  180
gcaggccccag ggctgaaatc ataaccgtca ggcccagcct tggccaaaga taatgcaact  240
ttggcagggc tggctgctgg gagggggcag gcacttgctc ctcgtagagc aagagtgggt  300
ttcttcctg accctccctt ccaccccggt aggggtggtt ccttaggaac tcaggcctgc  360
gggagaaatg gttccagctt ctggaggctg ggtgggggtg gggttggggg nnnnnnn   417

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<210> 10057

<211> 437

<212> DNA

<213> Homo sapiens

<400> 10057

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gaccagaaag agactttttc taatacagca gtgttttggc tgggacaggt tggccggact   60
ctccaggaac gtggtgaaga gcgtggggga ggcggtgag gcagggcaga gccaggtg  120
cagagctgtg tgcttcacaa gttggctctg tggtcgggaa ggctccacgg ccataaggac  180
cctggccttt gatttcctgg gaggaacagc acttgaacg gagtaagaat ttcaggcaat  240
cacctggttt cccaatggc ttcttgtct cacggacagt ttaacaaagc tggcagagtc  300
ctgtaactag gatctgtaac ttgggggta agggcaagta ggaacagaca tccaaaacaa  360
ctgagtgtg ggataaaggc ttgaccggaa agatttcagg ggccnnggct ttgtttgcat  420
tntggnaaac tnntcan                                     437

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<210> 10058

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10058

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ctagagtttg tctatatttat tagtcttttt aaagaacccat gtatgtcagg tttccttcag   60
gaaatagatg gtgtattcaa actggataat ctaataaagt tatatttata aaagtataga  120
aagagtatag tgaaaccaca agtaatagca gaatcccctg ggactgggac aagaggatgg  180
agcagtcacc agaacctgga gacagagagg gctgcctggc ttcagataat gtcagcatct  240
gtgctgtatg agttccagtg tggcagccct ctctaaatt accccaattc cctctggatc  300
tgggatctgc tccctcctct tgcccctgag gtctgggggt gggaaaggct cccactctt  360
gctagttcca ggggtgcttca ctggccttta tgagtttccc ttcaccctgt tcacaccttg  420
gtgaatattc tcttcttgac atgctcctca gttcnccact tgaatgggcc atctgnttct  480
tggcgggacc ntgactgcac tggttcattc caanctgggtg agctgggctt taaattggnc  540
ctgggtaacc                                     550

```

<210> 10059

<211> 552

<212> DNA

<213> Homo sapiens

<400> 10059

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gagatggagt cttgctctgt tgcccaacct ggagtgcagt gttatgattt tggtcactg   60
caacctctac catgttcaag cgattctccc acctctgcct cccgtgtagc tgggatacaca  120
ggcacacgcc accacaccta gctacttttt gtatattttag tagaaatggg gtttcacccat  180
gttggccagg atggtcccga actcctgacc tcaagtgatc ctctgcctc ggccttccaa  240
agtgctggga ttacaggtgt gagccactgt gcctggccaa aaatgtgatt tcttatttcc  300
cacattgcc aattcatttc aattaactat aatagctatg tctattgagc actcaagcgt  360

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attctagaaa ctgttcctga ttctggggat atatccatga atgaactata gtccctgtta 420  
 ttaagtaatc cgtagtctga ctaaaccatt agaaattaaa aaaaaaatgg ctactttcaa 480  
 agacatcttg gagttcanga gtcccacact gggaaccatt ttacctaata atncaanctg 540  
 nttggaatta ac 552

<210> 10060

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10060

catagggtct cgctctgtca ctcaggctgg agtgcagtgg tgtgatcatg gctcactgcg 60  
 tcaactgtgc ctcaccctcc tgggtcaag tgatcctcct gtctcagccc tcccaagtag 120  
 ctgggccaca ggtgtgtgcc accatgccca gttttttttt ttttttctgt aaanatgggg 180  
 gtctcactac gttaactggg ctggtctcaa actcctgagc tcaagcaatc cttccaactt 240  
 ggcctcccaa agcgctaggc ttacaggaat gagccaccgt gcctggccan aatcggttac 300  
 atatatgtga catatgtgta atacatgtgt gcctgtcccc aggtntcagg gcagagagaa 360  
 cacactttct cctactattt taccacacc ttcttgctgg gaggtatta aacctgaagg 420  
 tctggtacta tgtantgggtg aagggtgana tatggattca aaccacactg gggtttaagt 480  
 ccctgntttg gcaattaatt ttaatgggac ccctgggcaa ggggaaccnc cctttttggg 540  
 ncctgggttc cctngttn 558

<210> 10061

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10061

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ctcagggccc tgggactgaa cacggtctca cagacagcac atattctacg tcacagctct 180  
agggtttcaa ggacttagcc atccgacagg cctcaccata aaggtaaagt ggacaacccc 240  
tgaggtcacg ctgtccaggt ggcgacaggc cacgcatgcc aaaatcctcc atagccacct 300  
ccggcccagc accagccaga ggggtggggcc atcggttctc gacatacttg gtataaggga 360  
gggacaagcc tgacaaagtt cacaatctgg ccaatgagtg tgggaggccc tggaaacagg 420  
ccaatcctgc aagccacccc acccttacta acttcctgaa catgggaagc tttttgagac 480  
caggnccaag gttcttttcc tttattggga ccacgcaaaa ggcatttntg cantgcttga 540  
aggtccccct ttaaaccn 558

<210> 10062

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10062

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atagccaatc agtagacaca atcagagtag tagtattcct aagaaaccag gataaatctc 180  
caatgtgcat gagtttaatg aaccagatag attattgtat cgccaatatc cacccttate 240  
ccattctcag tcagatgaat tttcttgctc atgaggtcca cattgaaaac agcatgctca 300  
gaaatggggg tcttctcggt gtactccttt cccaggacag gaactcgtcg aggccccaac 360  
agtggatcat caaatctcat cagtttcact ttggaaaggt ctttaattcc tcgattcatt 420  
ttcattaaac gcctgattat ggaatcacag ntatctnct gnetggattt caattttggt 480  
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<210> 10063

<211> 550

<212> DNA



<213> Homo sapiens

<400> 10063

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ccaagtccct tatTTtactg atgagaaaac agccagagag tgaaagctga tgattacaaa 60
tcacagccat ganagctggg ctctgcactc agccctgctg ggctgggtgg ccgctgctca 120
cggngaccct tcaaggcagg cctcattctg tccagtanag gtgtggttac taagtcatag 180
agctacagag gtgagggacc aggtgccctc actttggttc caagaccat ctgcacccca 240
caaatgccac cagccacacc tagaacaaaa tggTTTTaat caattgcgtc accctcactc 300
tcctgggagc ggagcaacaa aaaggctcgg ctctgcccc cagaggacag taaggcttat 360
gtgtctctcc aactgcagg gccaggtctg ggcaggcagg gggTgggaag caggacaggg 420
ggcagggaag gaaggttgn aggcaggga ggaaatggca ggtggctgga acccangaaa 480
gccaagggga nccaacttgg nccttgggcc ccaggGCCa ncccaatac tncngTTTTc 540
cTTTTctg 550
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<210> 10064

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10064

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ctcagagtcc tgccaactcg caggcttcgc tgatcgcatt gcacctgggc accccGCCa 120
agagctgaaa ctccaaggc tcagccagga ctctccagct gtggtgtttc taaaagccgt 180
tctgggtgag atgtagagcc gagttttccc agtcgctcag tcctcctccc gtgaggacaa 240
cactgcttgc tctcctggct tgcctcacc atccaggaaa aggtggggag gggctctagg 300
cagcggcctc tcctggttga aagaaactga gacctgggcc ttccgtccag tttaacctgg 360
agcaggcctg gcccctgggc aggtcagag caggTcccc attcagcaaa tgagggtatc 420
ctcctatTTT gccaacatcc atcttcaccg acttggcctg aaccattct tgagtacaga 480
nggacacca tgacagaaat nccangtnac ttttgctgga agccactggg ctggaanagg 540
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acttnttt

548

<210> 10065

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10065

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agacagagtc tcactctgtt gccaggctg gagtgcagtg gtgcgatctc ggctcactgc   60
aacttctgcc tcccaggctc aagtgattct cctgcctcag cctcccgagt agctgggact  120
acgggagcat gccaccatgc ccagctaatt tttgtatitt ttgtagagac ggggtttcac  180
catgttgccc aggctgggtc cgaactcttg acctcacatg atccacttgc cttggcctcc  240
caaactgctg ggattacagg cgtgagccac tgcacctggc cccccctctg ccctctcttg  300
agaggcaagg cattttctat acaggggtga ggaaaagtta aactttctat acagtaagtt  360
agcaatgccc aaatcccaac tgagaaacga tgtaaatttt agtgataggg ctgtaaccac  420
taggtaatgg caaggacata aatcccaata ttcacaagtc cttgtgggga aggggtgtgat  480
attgnatctn cctgncactt tatgttcata tatggaaaca ttatggaaat gacctattac  540
catcttttta                                     550

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<210> 10066

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10066

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gcccccttta caggggagac gtaaagctgt cccagttatc aaaaaattca aatctccttt   60
tcttctgtgg actggctgtc aatgagcttt catccagggt gtctcccatg ttctgggaac  120
tacttccaga tgttccctgaa gcacttcctg ggtcaaagga ctctgtctgt tccaggagct  180
ccatatcact tcctttcttc tcaaaggact tctggaatag gtcgtagatc ttctgcggct  240

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ttgggtcctt gtagaggtaa tcagtggatt ctgtcatttc tgaaaaattg gtctcagaaa 300  
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 ctgtgccctt tgccacgagg tagtgaatgc ccacggagct ggtctgtcca atgcggtgca 420  
 cgcggtcctc agcctggatc agcaccctg ggttccaaaa cagctcagca aacaccacca 480  
 ggtcaaccca ngaaaangtg aagnccatat tggcagcggt gatggacagc acgggcacag 540  
 catgctttt 549

<210> 10067

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10067

ctttgagatg gagtttcact gttgttggcc aggctggagt gcaatgccgc aatctcggt 60  
 cactgcaacc tctgccttct gagttcaagc gattctcctg cctcagcctc ccaagtagct 120  
 gggattacag gcatatgccca ccatgcctag ctaattttgt atttttggta gagacggggt 180  
 ttctccatgt tggtcaggct ggtcccgaac tcctgacctc aggtgatcca cctgcctcgg 240  
 cctcccaaag tgctgtgatt acaggcgcga gccaccacgc ccagcctcaa tttaaccttc 300  
 tttcttcctt gacaccgcac atcctgactt ctccccctta tcctaatacca ggactactcc 360  
 ccactccttc ctagttacct cccctacctt ggggtcctag ttggcaagga tctgccaagt 420  
 ggtctggttc ttgaagaagg tggtgccaac acttttaaaa agaacctaat ggaaaacang 480  
 cttgggggtg ggaagggaag gggttgatta ataataagtt ttctccaaa tagccggaat 540  
 ggaaagggtc tgg 553

<210> 10068

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10068

atgtttcaca atttgtatgg ctgattctac gcacatttaa atgtgtttat gacaattgta	60
catttcagtt ttcctctggt taaaccaatg tggaagtaca caggatggga gctgagagac	120
aagcatcctg ggcccagcca tgctggcctc agtgggcca gctggggaca gatgacctct	180
gctccgtgga tcttctgctg gcaggggtgg gaaggggcct cagaagagga gtcaggctct	240
cctctttatt ctctcacag ccatggtgaa tggcattcct gggaggctgg ttgggagaac	300
tcgctgaacc taagttagca ggaagtgaag gtctgttccc acctgtgcct gtgttcccag	360
atagcagctg cctccaggag actcaccagg agccaggctc ctccatacct gatctcaatt	420
aactcactca ccaaggagcc caggteccctn ccatacctga cctcaattaa acttaactta	480
cccaggagcc aaggteccct cattacntn anttaccac aatcaagtnn ccttcanacc	540
ttatcttaat tan	553

<210> 10069

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10069

caagtttagg gatgtgctct atatttgcatt ttttcttttt aaaaggcaca gtttttattt	60
taacgacgct gcattgctct ttgatgatga atctcaattc gactcctcaa actgtcaaca	120
ctcttggtat cctagattct agaaggggcc tcatcttttg acttctttct atagagggcc	180
acatctaaag ctacagcact catttgaaa aggacactgg gatcaacacg taagcgttgc	240
aagcacaggg gccgcctctc ttgcagacag gtggccaaag cagggttgt gctggggccag	300
aagtggaagt aattcctcgc cagctacaca ttcagtctga ctggtggatg attgggagtg	360
tttgtccctc cctcccccaa taattgatgg ccttgagatc tgccagcatc tcaaaggcag	420
attcgtggct ctgttcccag acttaggtct cagttattta attggtaaatt gacacaatca	480
aagagactca acacttaatt gggaatgctg attcaagtat ttcctgggct aactngtgga	540
agccataaat tgg	553

<210> 10070

<211> 504

<212> DNA

<213> Homo sapiens

<400> 10070

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gaatggaaga tattgcaaca ctgggccac agattttagc aatagcaaca ttgcaggga   60
gctggtagc agttgccctc atctgatagc acatgcattt tctagctccc tcaagttctc  120
tctgctcact ttggtacctg cctggctttt atagacatca gagtttgaaa tctttttggt  180
tgtttgtttg tttagacagc ggtctcactc tgttgcatag gctggagtgt agcggcctga  240
tcacggttca ctgcagcctc tacctcccag gctcccgaga tcctcccacc tcagcctccc  300
acctagctgg gaccacagcc atccaccacc ataccagct aactttttgt attttttgta  360
aagaccatgt ttcgtcatgt tgctcaagnt ggtctcgaac tcctgagctc aagcgatctg  420
cccacctggg cctcccaaag tgctgggatt acaggcgtga cccactgngc atgacctgaa  480
atnnttattt natngnnaa cttt                                     504

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<210> 10071

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10071

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gttgctttcc cagactttta ttgaaatgt gactgctttg taaaactcca gagtcaagga   60
ctcataggca ggaggatgtc ataaattaac aggaaaggat gagaaatctc cactccactc  120
cctcctccct cccttgatca ctcatccct ctcttacatt cattaaccac ccactacatg  180
ccatgcccta aggaagcagc tatctaagaa gtccctgcct gcaggggctt tacagaccag  240
gaggaaggca acccatagag ccaggatcct gataaccact gctgactgcc cctctgccta  300
ggcaccagct aaggtggctc caaaaagtga ggccttgntg ggaaggggaa aaacagcaaa  360
ggtcagcttg gatgaacca tccagaattt tgcaatcaga aatacctana aaagaattat  420

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tttagaagaa cagggggatg ccagggttg gggatgagga atgatgtttt cagtgcctaa 480  
ggcccctgaa ngctttggtc ttctgtctca aaaacgcaag gggggtccca ggttgccttt 540  
tcanagcttg cctttaatnc tggcanttc 569

<210> 10072

<211> 570

<212> DNA

<213> Homo sapiens

<400> 10072

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ccctgactcc tgetacccaa gaaggccacc ctttctgtcc tgtgatactc cgtggcatct 120  
gttctgccag aggactgacc ctttgtgtc cacatatgtt ttgccaggaa acacttatct 180  
cagccacaaa ccgtccctgt cctccaaaag actcagagct gcttacaagg ggctgctttg 240  
gtcagtcagc tgtagtctt ggggtctctg cctcctctgt ggggtagca tcagtcaccc 300  
taaagtctc aggccgccgc tagctagtga gttacaagat ttagaaacc agctcttgct 360  
cacagatcct caggccctg gttcttggat ccagaggcgt ctgaggtagg ttcacaggca 420  
cctgctgctg ctgctgctgc ctctgctctt gccctcagtc cccgtcttc cacctgggtc 480  
cccttgactt ttcattgctg angctgactg gtggccaagt ctaaactgag ggncttccgg 540  
anaccgagaa cccgccgaac ngccttggan 570

<210> 10073

<211> 564

<212> DNA

<213> Homo sapiens

<400> 10073

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gcaacctcca cctccgggt tcaagtgatt ctctgcttc agcctcccaa gtagctggga 120

ttacaggtgc ccaccaccac acccagctaa tttttgtatt tttagtagag acgggggttc 180  
 accatgttgg ccaggctagt ctcgaactcc tgacctcagg tgatccaccc gccttaacct 240  
 cccaaagtgc tgggattata ggcgtgagcc actgcaccca gctggaaaat acttcttaaa 300  
 tgcaatttat aagcatgtgt attagtttcc tattgctggt ataacaaatt actacaaact 360  
 tagtggctta aaacaacaca gatgtgttgt cttacagttc tagaggttag ttctaaatag 420  
 gtctcactga gctaaatcca cgggtgcagc agagctgtgt tctttcctag agcttctagg 480  
 ggagaatctg gtttcttggc tttttccagc atctagcact ggcacanttc tttggcttgg 540  
 gancttggtc catnttaaatt tcat 564

<210> 10074

<211> 574

<212> DNA

<213> Homo sapiens

<400> 10074

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 gccctgggag cctaaagggc agtgaggaga aggcttagca agaggcctgg agcaggggaa 180  
 gtcaggtccc tcaggaaccc ctctccccc agaggaagga ggaagagggc tggagagtct 240  
 gctggagagt ctgctcagtt cctcagcaac tgcactgcag gagggtgcag gccatggggt 300  
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 cagtcccagg gtccagccgt gactccccta agggccccct gccctccaag tccagctcct 420  
 caaaagagga gcccgtggc gcctgactcg ctgtagctgt gctcgctgcg ggtgtcaccg 480  
 tcatcccagc cacngctgna cgccccagt acagtgtggc aacttgaagt cttcccgggt 540  
 gcaaggctta ctttcagctt acagaactcg ggtn 574

<210> 10075

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10075

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agaaaataaa aactttatTT ttttcaagtt tataagatag ttcccattac atataacatt 60
acggtcacgg attctacagc cacaaatgcc cgcagtcaca taaatatatc caatccaatc 120
aatgcctttt cctgctaaca gaggcattctg aagttcagag ggagagtcgc attttaagta 180
aaagtcgtcc ttaatgggag ggctcctgtc agtgcattag gaactagcca aggagccttg 240
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tggtagaGaa tagaagcctg cttagagggg accctaactg cctccttgag gagtaaggag 480
tcagaggaag accctaagct naccattcct tggncCaacc attgntntac cccatacttc 540
ttccctggg ggtn 554

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<210> 10076

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10076

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ctTTTTtatt tgagacggcg tctcactctg tcaccCaggc tagagtgcag tggTgcgatc 60
tcggctcact gccagctcca cctcccgggt tcacgccatt ctctgcctc agcctcctga 120
gtagctggga ctacagggat ccaccacCat gcccgGctaa ttttttGtat tttttttagt 180
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tggctctttc tatgcacca gttggatggg caatttacct atacctggca gaccaaagg 360
aagataactt ggggcctcgc agctgtgcgc acccatgga aaccaccaca cagcattttt 420
tttttttttt ggagacagag tctcgttctg ttactcaggc tggagtGcaa tggTgtgatc 480
tcggntactg naagctccac ctncTangtt caagcgattc tncTggctta ncctcctang 540

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<210> 10077

<211> 565

<212> DNA

<213> Homo sapiens

<400> 10077

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cacctaagtc tttatttatt tggctctagg aagaatttgc atgaaaatga gcctgtatgg 60
caggtacaga atgtactgta acagcaccag agaggtacat cctctctcct ctacagagcc 120
tcaatgttta atacatacat gtgacttttag tcataaaacc acatagtcca ggaaaaaagg 180
agcccttttag aaaaaaaaaa tcagttttaga atgactttca aattgaccat tccttttcaa 240
atacttaaat tcaaataaca gatacattca gaggcccaaa tgttggcata gaataaaatc 300
atgttcattt atttttttct gcatcttaga attagaaggc ataaaattaa atatgttgaa 360
tgtaataaat tcatccatac aagtgcaagt ctccagatat aatgcatttt atggcagatt 420
tattatttta aaaatgtgcc agtaaatcaa aaaaagaggg agtatgncca tttaactttt 480
aatggaagng atgtaggagg cttcagaaat caaatgngag cntgaaaatt ggccaacctt 540
aaaactttca aatctgggna aagtg 565

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<210> 10078

<211> 499

<212> DNA

<213> Homo sapiens

<400> 10078

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cttctcacct cagcctccca aagtgtctggg attataggca tgagccactg cacctggctg 120
agatgaaagg tcttactcac ttttctggc tctttactcc tgggtgtggca ctatacaaag 180
ccatgacgtg gaaactgagt cacatactc ctagttgggc cactcaaat aactcagatt 240
gccatccacc catctttttg gaaacgtaag ttccactaa atgttctatg tgggcacaga 300

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ccagtacaga gggaaacagg ttataattag ggagagctgt tgctcttgga accttctgga 360  
 ttttaatggc cccgagaaat caagtcaaaa caggcttcat gctgttgctg acttgccagc 420  
 cattgctgac ctaaaaatag angaaggggc cataaaccaa tntacatang tggcctntaa 480  
 cagctggaaa angcnaaan 499

<210> 10079

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10079

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 aacctctgcc tgccagggtc aagcgatctt cctgcctcgg cctcctgagt agctgggatt 120  
 acagggtgtg gccaccacac ccggctaatt tttgtatttt tagtagagac ggggtttcac 180  
 catgttggtc aggctgggtc caaactcccg acctcgtgat ccgcccgcct tggccttcca 240  
 aagtgtctga attacaggga tgagccactg tgccggggcca aagcagaatt taaatcagca 300  
 attgggatac aatattagtg cagataattt acactagagt catatttata tctgncacag 360  
 tattaaagta taccacatat gtatggactg ntagaagaaa ttcatttcat ttttaaaagc 420  
 aatggattgg ttaataaggt taagttcttt aacactttct ttaaaattcc tggcaagggt 480  
 aacttccatt ggcnttttta aatngaaaaa ccnaaccnaa ccaaacttaa accccaagcc 540  
 acnccccaaa atggtaagtt t 561

<210> 10080

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10080

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gcaacctctg cctcctgagt tcaagcaatt ctcttgccctt agcctcccga gtagctggga 120  
 ctacaggcgc cgcaccat gccagctaa tttttgtat tttggtggag acggggtttc 180  
 atcgtgttg ctaggctggg ctcaagctcc tgagctcagg caatctgccc acctcgccct 240  
 cccaaagtgc taggattaca ggcatgagcc accatgcccc ggcccctttc ctttgatttt 300  
 aataacactt agagtaatgt agtgttctgg atccagaaga ttacttctgg aacaattagt 360  
 gaccaacaac cacccttata cttgacataa aactgagcag gtttagggac aganggaant 420  
 gtgaagtcca ccagctnttt cacactngc ttataagaac caaatctggc caatgtgacc 480  
 tgacacactt acctgggcaa ggatcttatn aagangnttc cagaataact tcccgaact 540  
 tntntgggac tggtaa 556

<210> 10081

<211> 421

<212> DNA

<213> Homo sapiens

<400> 10081

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 tcaactgcage cttgactttc tgggttcaag gagtcctcct gcttcaacct cccaagtggc 120  
 taggaccaca ggcgtgcaac accacacca gctacccact catttttttg ttgaatgaac 180  
 agcttaaatt cttgttctga cccaagagcc ttgcaactgc ctcttcctcc tgcctgctta 240  
 tccccagtt atccacctgt tccctccctc atttccttca attttatttt tttctgcaat 300  
 ggggcctttc ctgactacca cttaaaattg cttgcttggg tacaatggct cagcgctgta 360  
 atcccagcac tttgggaagg tgaagtgggt ggatcacctg aggnangan ttnnanacca 420  
 n 421

<210> 10082

<211> 525

<212> DNA

<213> Homo sapiens

<400> 10082

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acggtaggta ataagattta ctgaaaacgt ctcgccaca ttcagtactg gtttggtgga 60
tacatcagaa ggaggttgca taacattagg caggtggagg ggctgagagg aagagatgtg 120
ggcacctgtg tgccagtgtg tccgtgctgg gggacgcctg tccaggtggt gagtggaacg 180
gtgtgtgtgt gtgtctgtgt gcgcgtgtta acaagaaaaa cgaaccagaa aaggaagtgc 240
atztatccc actgcacatt gcaaaagtct cagccaaaaa aagctagact ttcctctatg 300
tatggcatca aaagggagta aaaaatgatt ggatcaccca gattataaat aagggtatgt 360
gnttctcaaa aatccttatt aaaacattaa atatcancctc ttttgggggg agaaatacat 420
tcatttcagg gagacctcgg aagaatggnc catncttttg nttntacccc aaccagtggg 480
ggaaggggaa nccccaaaag ggccaangg ggtccctcca gttga 525
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<210> 10083

<211> 552

<212> DNA

<213> Homo sapiens

<400> 10083

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gacacaggta aattgagggg agggtttctt ttttcttttt gtttttttga gccaaagtc 180
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cctttaaaaa gg 552
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<210> 10084

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10084

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tattctcaca gaagagctga acagacattc accaggatac gactgttgga ccagctgctg  180
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ccaaacctgt gggaccctgt tctacacacc tcatttttgt tccggcgttt catcctcctt  300
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cagggttaca tggtaggaaa gaaaggaaat tggagggtact aagctcattg ggncctcctt  420
agcttttacc agcatctaata gcttcactgn tttttttcca ttggagactt taatggcact  480
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<210> 10085

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10085

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tggtaaactct tttgaacttg cagtttagcc aatcctgaac tgtaaatgta agaacaacag  180
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ctgcctgtac tagttgccag tgtttcaagg gtttgaaagt ttctcaaagc tggctgacag  360
    
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<210> 10086

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10086

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 cgcccggcct gcctgcttag tttctggctg tcacttagct ttgcaaggct gggagcagca 180  
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 gcctgatgga gaagcagaga tttggggcgt ggggctggag gaacagccag tgccacttgt 420  
 tcctctgaag caagtggnet taaaaccacc ttntggcctt cccagctact tgggcatgct 480  
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<210> 10087

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10087

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 gaatggtttc ctggaagctt tggattataa cctggcaaaa ggtgaaatat attatcaatg 480  
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<210> 10088

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10088

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 attggtggtg ggggatgggg attaatacag acagctcggg tagggtccac tcctggttcc 180  
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 tggttccctt gaaaaagaac ccataaggat cccccaatcc accccaatgn gggttcttggg 480  
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<210> 10089

<211> 490

<212> DNA

<213> Homo sapiens

<400> 10089

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agcaaaggta gatgtgtatg tgtgtgatac tgtcatgggtg acatttgtcc aaacctatag  360
aatgtgccaa gagtgaacac tgtggactct ggTTgatggT gatggatcaa tgcagtttca  420
acaactgtga cacatncacc cctntggagc gagangtctg cantggggan gctatatggg  480
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<210> 10090

<211> 470

<212> DNA

<213> Homo sapiens

<400> 10090

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aaggctctgt gctttcatag gaactggaga gcaattgtca acaagggaaa ctgaaagaat  180
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ttcagctacc aggagagaaa attaggtgta ggagccctgg tcccaagctc tggctcttaa  300
acaccatcat cctgctttac ctctacaacc atcccacgn cctattatat ggatgagggt  360
aaagaaacac gtncaangcg ggtcattccc cttcagtgt taccacctan ttgagggatc  420
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